449

GOSSE

ORCHID NOTES.

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04-1267

Library
of the
Massachusetts
Horticultural Society
Boston
Gift of
Albert Cameron Burrage
1859-1931
June 28, 1931

June 10/67

Dear Mr Spencer

I have looked over the enclosed, returned herewith, as does Prof. Blake, at my request. We both of us think that you had better not publish them in their present form. The structure & shapes of the seeds of orthodoxy are well given in Beer's great work, & the

observations on hydrophobia & would require further investigation to give them full value.

Do you not sometimes take the succession of the lodge 124 as lodge for a radicle?

Very truly yours

J. W. Moore

Kew
June 18/67

My dear Sir

I am very sorry from
thinking you are going
"extra cubicum" in running
Botany. The greatest
discoveries in Botany often
in any other day, are the
Discoveries when had no
knowledge of the subject
when he began.
What you should do is to
make yourself master of
what has been done &
written by others, & then

complete on our observations, previous to publication. I see you call what is considered & by the Sec Pensacola, a radicle - which of itself invalidates your conclusion supposing you are right & prove that the organ in question is radicle.

Very Sincerely Yours

[illegible]

Nice
June 8/67.

Dear Mr Lepe

There is no general work on the Medical Flora state suitable to your friend's wants. The "Flora Medica", begun by Dr Thomson & self, fell through for want of funds, we had the whole business of it, some £300, & only got some 75 back. — The Medical Board refusing to Dr. T — even his pay for the time he spent on it.

After the transfer of the Indian affairs to our Govt. Sir C. Wood sanctioned the "Flora of India" on the same terms as the "Colonial Floras", but meanwhile Dr. T. had returned to India, & now that he is back his health does not enable him to go on with it:

Roxburgh's "Flora Indica" contains capital descriptions of some 1200 common Indian Plants, Gods &c., but it is difficult to get. & Wight & Arnott's "Prodromus Fl. Peninsulæ Indiæ" dealers also the other Eastern Peninsular Thalamiflorae. - Beyond these all is Chaos. In Ceylon there is nothing of any Govt for India or for any other country. Gelmuster's Descriptive Botany is also out of print & abandoned of late, & not easily to be got. Thing..

I shall be glad to hear about Orchid-notes. The Embryology of these orchids is a most difficult study. You say manifest perfect seeds, but how do you judge? - Germination

is the only test that can be depended upon. You can make an orchid vary much by rubbing sand on the stigma, but that is not fertilization, & you can develop ~~raise~~ smaller seeds in ~~of various~~ ~~plants by artificial aid~~ of some plants without pollen, but they will not contain a matured embryo.

Very truly yrs

Jos D Hooker

Kew Dec 15/81.

My dear Sir

Your question regarding the culture of the temperate Indian Orchids is a very natural one; I believe that very many of them would do equally well better in a cool green house than in the stoves we hardwood them is indeed so far as mere mean temperature is concerned, for they would find that of a greenhouse ample; — but the distribution of that temperature is very different in Indian temperate climates & England; — in India the warm moist weather of March to May brings the orchids vigorously into bloom, & the growth once begun is never checked for cold — whereas this is very different, there

great. Le weeks between
Fever & July may occur at
any period within those months,
as often as not it occurs in
April, & is succeeded by cold
wet weather. — As a general
rule our springs are cold dry
& very windy. — weather most
prejudicial to orchids; & such
are the successive months
contrast sharply, but the
dry weather & days are too.
Dry our notion away. Was that
those greenhouse in winter to
July — or stands would be good
for these mountain orchids, & that
then they should go to the
stove the flowered, — the
objections are that with so little
sun as we have in spring
(compared with India) the flowers
should very slowly, & the mere
heat & warmth of the stove
tend to produce leaves instead.
Then to what is to be done with
them in summer? when they
should be rested when for 4-6
months continuously? — If you
do this in a cool house, they
will not do at once; if in a hot house
they are stimulated to death,
& if in the open air the summer sun
dries them up at once after watering.
Hence when in India we find
a moderate stove heat the best
adapted to these plants, — it
mitigates our winter cold, gives the
best spring temperature & moisture,
& is better in summer than the
open air or greenhouse.
The whole subject of orchid
culture is one of great difficulty
& which requires a special study
& treatment by an able gardener &

we lose hundreds from not being able to give time & conditions to every one. - So one in our grower is celebrated for Vanilla, another for Catasetums, another for Cattleyas - Vanillas - &c &c. O

[illegible] by to keep alive general collection, have for the last few years failed i ab most signally - this our collection is to shadow of what it was, by the attempts of skilful theoretical gardener to imitate conditions that in this climate are inimitable. So we have returned to the old system of moderate stove heat for ab & find that we are fast improving - After ab one must remember that i nature Orchids do not grow where they [illegible] but where other plants will not [illegible]. This is the best

horticulturist who lets on the conditions to which the most will best adapt themselves. As a rule our attempts to imitate natural conditions have been dead failures; because we cannot imitate sh & a "ship is as good as a mile" - it is as one giving the exact heat or cold of wac combained with the exact moisture, shade, light, drought, & exact proportions of each season.

I to Vanda coerulea its flowers after the events of tremendous rain & saturated atmosphere,

The Indian Orchids have been collected & such have been Khasia by thousands & are largely cultivated, good plants fetch £5 - £50 each at sales year after year. & by hundreds

which seems to prove that they are bought by thousands by amateurs. The prices are so enormous that we are never even send to the sales to bid! The demand seems insatiable, but the hopes of deaths on the papers are very forcible.

I am very sorry that you have to pass from London & that we shall see no more of the Linnean Society, which is in want of subject from Zoologists very often. By the way it has been suggested several times lately, when in the council, to point out to you a little matter which you have no doubt long forgotten, namely that your name still stands amongst the Apocrites of the Linnean, & is the only thing that is so. By a late bye-law of the Society, the Apocrite list will be gradually reduced to 25, & be confined to its original function, of enrolling only such persons as, whilst belonging to a different class of society to the ordinary members, are pecuniarily unable to afford the subscription, & who yet wish be anxious to attend & avail themselves of the Society. — It has at the same time been considered proper, by the council, to remit the entrance fee of membership in the case of Apocrites who, considering that their position is not what it was when they

were elected associate, may have
no desire of joining the Society as
Fellows — This is a matter which
must be left to the judgment of
the individual — for me I am
sure kindly excuse my mentioning
it, which I have often been asked
to do, but should not have
ventured, had you not kindly
opened this correspondence, that
I might give you the pleasure of
coming to see them when you visit
London & bringing Mrs Pope
with you — Pray present Mrs
Pope my kindest regards

Ever & believe me

Very truly yours

J. Stoller

Kings Road
Clapham Park
Septr. 16. 1863

My dear Sir,

It affords me great pleasure to hear from you that the Disa arrived in good order: and that I have been allowed to gratify one of your wishes.

The plant I have sent, I expect, is that one figured in the Floral magazine of 1861, by Andrews, & in my opinion the best of the two varieties. the flowers are larger, and the plant itself appears to grow more robust than the variety that has been named Samba. If I should succeed in rearing any fresh offsets this autumn & winter, I will endeavour to let you have, next year, one also of this other variety.

It has <u>not</u> been my plan to let the pot stand in water: on the contrary I always my pots standing on three or four pieces of Crocks, so as to ensure the water passing off, and

not stagnating. Syringing the plants once a day even throughout the winter, as I do; and two or three times a day in Spring & Summer, it seems to me most necessary to take the precaution of thorough drainage. And while on this point, it may assist your success, if I add, that whereas this species of Orchid may soon be made unhealthy by being sometimes allowed to get dry, and then soaked & deluged with water, it can scarcely be killed by continuous watering. So much does it indeed appear to delight in water, that a plant, in the Spring of 1865, an offset no larger than that you now have, & which has from that time till now been growing in its little pot, immersed in another filled with water, has this year been throwing up two spikes of flowers & flowered very fairly. I cannot say however that this plant has thriven quite so well as those grown in the ordinary way. Nor need one be much surprised at the result, as with the occasional throwing away of the stale water, the nourishment derivable from the decomposing peat must pretty well have disappeared also. The experiment has nevertheless had its use, in shewing how great a quantity of water the Disa grandiflora needs.

Summer & winter my plants stand in the same place in my greenhouse. That is, close to the front windows, where they can have both air & light. In May & June I have forced two or three pots in a stove, to get them forward for the July exhibition. but they don't seem to require the additional heat except for such a purpose, and this summers heat has been quite sufficient.

In its native place, the Desa probably dies down, & takes its rest: and this it does, I think, from the necessity of its case: What can stand up against a drought of three or more months duration? But tho' absence of rain may cause it to die down on Table mountain, and the surface of the bogs may be parched up, I apprehend that this state lasts but a short time: & that "the Table Cloth", hanging over the mountain for six weeks at a time, and during the very hottest weather when in the plains all is burnt up, tempers the heat there, and preserves moisture in the bogs, sufficient to enable the plants to start vigorously into growth the moment the Rains return. Here, at all events, they do not die down - My plants, tho' scarcely out of flower, are throwing up their new growths close beside the old

plants. & these together with some of the best runners or suckers will be the flowering plants next year: the old ones meanwhile, dying away gradually during the next two or three months.

The temperature of 31½, I shd imagine to be of very short duration and occurs probably, just like our autumn & spring frosts, at sunrise not lasting long enough to do much harm - In severe frosts here, my greenhouse is always matted up all round, and then a very little heat suffices to keep the thermo=meter from falling below 35. which I think a better plan than drying up the atmosphere with the overheated air of flues or hot water pipes.

I am not yet acquainted with the two Discs you mention, the D. secunda & Herschellia celestis.

I also have written out to the Cape, & I hope & expect that a supply will be sent me ere long; & that if they are to be got, those you name will be among. a Gentleman connected with the Botanic Garden having promised to interest himself on my behalf.

Do you cultivate any of the Cape bulbs? some of them have been my hobby for years past. & I would gladly send you a few things which I could readily spare.

Believe me
My dear Sir
Yrs very truly
Chas Leach

P. S. Coffee Esq
Sandhurst
Torquay

King's Road
Clapham Park
9 Sept.r 1863

My dear Sir,

I have just been packing up a small plant of Disa grandiflora, which I promised our mutual friend Mr. Dombrain that you should have. The despatch of it has been delayed by my desire that you should have a plant likely to flower next year. & I think that which I now am able to send you will almost surely do, if you sh.d succeed in keeping it growing thro' the winter; and you will have no diffiently in doing

that, if, in a Greenhouse or pit, it is just kept out of reach of frost: watered once or twice every day, and plenty of air given whenever suitable. The plant you will recieve, is an offset ~~from~~ of last autumn; and is throwing up its new growth for next year. I think it will be well to shift it at once into a fresh pot, say two sizes larger than that it has hitherto been growing in; and to use, peat only, with abundance of silver sand - giving afterwards a good watering. During Jan^y & Feby but little growth seems to go on, & the old plant will have died or will be dying down - but young runners will probably begin to shew themselves then at the edges of the pot; and these I would recommend being allowed to grow till the flowering is over, when they may be taken off, or, with the parent plant, shifted again into a larger pot.

I hope the little box will reach you safely - it will go down, I expect, by a train this evening.

Believe me, My dear Sir,
Yrs very truly
Chas Leach

P. H. Gosse Esq
Torquay

King's Road
Clapham Park
15 April 1864

My dear Sir

I am very much pleased to hear from you that the Disa which I sent you last autumn has passed so well thro' its first winter: & I have no doubt, from your description of its present state, that in July or August you will have it coming into flower. I am no less pleased & obliged to you for the Satyrium & Disa tubers which you have so kindly sent me. I will bestow all the care I can upon them; and indulge the hope that they, like the D. grandifl:, may be found more tractable than hitherto they have been thought to be. It is against us however that we do not, unless your friend at the Cape has accompanied the little bulbs with specific information about them

know in what soil or situation they are found out there to be growing. The soil I am beginning with is half stiffish loam, half peat with a moderate portion of sand. & the little bulbs surrounded with sand: and I am placing them under a hand light, plunged in ashes. & fully exposed to the Sun, till they begin to grow, then perhaps I may shade them with a bit of tiphany: but I mean to keep them altogether out of doors now that we have spring, summer & autumn all before us.

You have received the Dein gr. fl.a just in the same state as those came to me from which I have raised so many: & I dare say, you also, just as I did, will find, besides the parent plants & their runners, dozens of young ones coming up, seedlings from the selfsown seed - The plan I adopted was, not to break the lumps of peat; but to put them as they were into large pots or pans, some being then kept in my Green=house, some in a pit with a S.E. aspect, & all constantly watered.

I wish you could just have a sight, as our friend Mr. Dom==brain had on Monday last, of some of my plants, 18 inches high already: just about to shew their flower stems, of which there will be, in one pot, certainly not less than a dozen a beautiful Specimen it will indeed be by & by, if no evil befalls it in the mean while -

With best thanks for your kind remembrance of me,

Believe me,

Yrs very truly

Phat Leith

P. N. Gosse Esq
Torquay

King's Road
Clapham Park
12th Oct. 1864

My dear Sir

I am much pleased to learn that you have succeeded in flowering the Disa this year: & I hope from the description you give of the offsetts already shewing itself, that you will be gratified next season by seeing as fine a spike of bloom as was obtained by Mr. Robt. Warner last year from an offsett I gave him, a drawing of which, by Andrews, forms one of the plates of the 9th number, just published, of "Warner's Select Orchidaceous plants."

Of the Disa's & Satyriums which you were so kind as to

give one, two rotted away – viz D. barbata & purpurea – D. cucul=
=latum, came up; but did not do well: but it has made a new bulb, I find: and I will hope for better success next year. S. fragrans & roseum, both did very well; & threw up strong flower stems, about 8 inches high, the former having bright sulphur col^d flowers, the latter white with a tinge of rose along the middle of the upper petal or hood, both however without scent – All were grown under a hand light; and the two flowering were brought into my small tem=
=perate stewed-house at the end of August to help their flowering. Here, I am afraid, that they did not like their quarters, and I conclude the air was too moist, more than half of the flower buds fogging off –

I have no proper place for growing the Aponogeton – pray therefore gratify some one else with the bulbs you kindly offer me as it would be a pity for them to be in my hands without a fair chance of doing them justice.

I am hoping to be able next week to pack up a few things for you which I can spare; & I shall be able to include among them two or three Hæmanthus of which, puniceus shall be one, & it is the best, so far as I have seen, of the whole tribe;

When I send them, my mode of treatment shall accompany

them: & should you wish for infor=
=mation relative to those bulbs you
have just rec^d, I shall be very
happy to give you the result of
my experience. Some of the Cape
bulbs growing in the winter, some
in the summer, many a disap=
=pointment is occasioned thro'
treating all alike, & many a good
bulb lost.

Believe me
Yrs very truly
Thos Lewis

P. H. Gosse Esq
Sandhurst
Torquay

Unflowered

April 6th 1864.

Cattleya crispa 1
Dendrob. mosch. 1
~~[illegible]~~
~~Milt. [illegible]~~
Odontog. grande
Phajus Tankerv.
~~Hunt. [illegible]~~
insignis
~~Cattl. [illegible]~~ 2
" " sup. 1
" crispa 2
Peristeria elata
Oncid. ampliat.
" Lancianum 1
~~[illegible]~~
Phajus Wallichii
~~Epid. ("[illegible]")~~
~~Lelia [illegible]~~
Lelia albida
Dendr. speciosum
Lycaste Skinneri 1
~~Cattl. [illegible]~~
" a
Dend. nobile 2
Lycaste Skinneri 2
Oncidium 7.

Milt. blowesi
Oncidium ζ
" ε
Stanh. tigrina
~~Dendrob. [illegible]~~
Stanh. Devoniensis
~~Oncid. [illegible]~~
Lelia 9
Schomburgkia 1
Stanhopea 14
Epidendrum 21
~~[illegible]~~
~~Brassia Lawrenc.~~
~~Gongora Bara~~
~~Lelia perpurata~~
Cyrtopod. Andersoni
~~Sophronitis grandifl.~~
Epidend. aurantiac. 2
Eustoch. maculat.
Oncid. sphacelat.
~~Stanhopea~~
~~Triop. textile~~ 1
Oncid. Lancean. 2
~~Brasiliensis~~ sang.
~~Lac. [illegible] in lilac~~

~~Aletris thyrsiflora~~
Epidend. fragrans
Ionopsis teneria
Schomb. (Jam.)
~~Oncid. Lanthagii~~
Gongora (Traill
Brasav. Digbyana
~~Stanh. tigrina~~ 2
Dendrob. Paxtonii
~~Cattleya amethyst.~~
~~Lycaste Deppei~~
Dendrob. Farmeri
~~Oncid. crispum~~
Vanda gigantea
~~Dion spectabilis~~
Miltonia M
Cattleya V
Schomb. (mass
Vanda tricolor
Dendr. formos. g.
Cattl. citrina
Sanderiana venusta
Cattl. Leopoldi
T.
~~Epidendr. V.~~

Trichop. suave
~~Cypripedium barbatum~~
~~Cattl. Mossiae 2~~
Dendr. Heyderian.
Trichop. tortilis 2
~~Hilt. Pandora~~
Maxill. graminea
Lycaste Deppeana
Aerides roseum
Brassia maculata
Ladia anceps
Cattl. Skinneri
Lycaste cruenta
Oncid. leucochil.
Acineta Humboldtii
Renanthera coc.
Coelogyne cristata
Odontog. citrosm.
Oncid. Barkeri
~~Cattleya discolor~~

1863

Jan 4. Cypr. venust. 2 more flo. open

9 Lycaste Sk. 1. 2 new growth

10 do — a growth-bud

Oncid. flex. opens 3 fl.

18 Oncid ? 37. 2 growths.

24. Stanh. scalata a (flo.?) growth

Oncid. E. a growth

25. Dend. nob. flowers 1 & 2

27 " " " 3, 4

29 " " " 5, 6

30 Potted Phajus Tank. very many lvs & massive root. Divided rhizome into several pieces out old peat, & well potted into a rich compost of loam, leaf, dung, charc, & cocoa.

31. Removed Miltonia Clowesii (Oncid 8) from block, & potted it

" Phaj. Wall. a growth.

" Epid. macroch. "

Milt. Clowesii "

Goodyera nicolai flowers.

Feb. 2. Potted Dendrob. pulchell. (Cuctor)

Cypr. venust. 1. fl. fades: 4 fl. opens

Rodriguezia see. (1) 2 growths

4. 42 a growth.

Potted Dendrob. densiflorum

29 has 3 more growths (4 in all)

Rodrig. see (2.) flowers

5 Rodrig. see (1) fades (last fl.)

2 growth

6. Dendr. nob. flowers 7 - 14.

7 " — " — " - 15

1863 Potted Orchids

Jan.

3 Cattleya Nov. (Schomb. Para)

5 Epid. sp. 1. | Dendr. nob. 2. | Perist. el.
Cypr. barb. c | Vanda teres in 3 pieces
Stanh. Devon. in basket.

6 Phaj. Wall. | Cat. crispa 2
Dendr. n. grand. | Onc.? 42.

7 Epid. macroch. r } in one pot.
Cynorchis
C. Hl. Mosiac. (Pruss) } Oncid.? A.

8 Maxill. Harr. } in baskets | Epid. sp. 2.
Oncid. altiss.

9 Dendr. pulch. 1 | Cal. vestita. the 6 bulb.
Lycas. Skin. 1 | separate
Do — " — 2 | remote.

10 Zygop. Mack. } Cat. Log. spec.
Cattleya α. } [Stanh. tigr. top-drops]

12 Lalia albida } Cattl. Moss. superba
Oncid. γ } Cymbid. aloif. (ter.)
Cattl. Loddig.

13 Stanhopea η } Odontogl. grande

14 Oncid. luccan. } Oncid. amplicat.

15 Cymbid. gigant. (ter.)

19 Dend. mosch. } charcoaled & mossed
" Pierardi

20 Reblocked & charc.? Oncid. papilio

21 Charcoaled & mossed } Cattleya citrina
Oncid.? E.
Busketed Stanhopea 14 & 15.

22 Reblock.? 37 | Rodrigwesia 27.
moss & charc.? } Stanh. 13 | Oncid.? 5.

23 Blocked Onc.? 41.

Jamaica Box.

Laliopsis lilacina
Ionopsis tenella
Oncidium cobolleta ?
" purpureum (Dem.
Broughtonia sanguinea
Schomburgkia
Epidendrum fragrans
Bletia

—

Phyllocactus crenatus
Cereus serpentinus
Rhipsalis cassytha
Clitoria Plumieri
Convolvulus mutiflorus
Canna

2.2.12

ششب

Shesnach = Babel.
by "Atbash" a reversed
use of the alphabet.

1

Dec. 24. 1866.

	lss	lfd	gr.	flo.	
Aerides odoratum 1	20	10	7	4	
Calanthe vestita	7	1			1
Coelogyne speciosa	15	17	12		
Cattleya crispa 7	1	16	9	2	
" — Forbesii	2	16			
Mossiae	5		2	1	
Cypriped. insigne	2				
" venustum	2			5	
Dendrob. moschatum	9	12			
" nobile 1		9	5		
" — " 2		16			
" pulchellum					
Miltonia spectabilis	7	15	8		
Odontogl. grande 1	6	15			
Oncidium flexuosum	1	3	1		
" papilio	5	17	1	14	
Phajus Tankervillia		2	4		
Stanh. insignis "gr. sft.	1	11	1		
" insignis	1	16			
Peristeria elata	2	2			
Lycopod. Mackayi	5	5	3		
Vanda teres	10			1	
Epidendr. ciliare	3	10			
Dendrob. Pierardi 1.	26				
Cattleya Percivaliana	14	17	14	1	

	lss	lfd	gr	fl.	
Lælia autumnalis —	4	[illegible]		1	
Cymbid. aloifolium		11	2	4	
Dendr. speciosum —	12	11	1		
Cypriped. barbatum —	1			3	
Cymbid. giganteum —		9	3		
Cattleya Loddigesii	3	31	-	1	2 [illegible]
Calanthe veratrifolia	6	1	[illegible]	1	[illegible]
Lycaste Harrisonia —	[illegible]	39	-	-	
Oncidium V. —	1	28	1		
Miltonia Clowesii —	5	6	1		
Stanhopea tigrina 1.	6	8	5		See T. 20.a NB
Dendr. nobile, grandifl.					
Stanhop. Devoniensis —	6	6			
Oncidium altissimum	2	16	1	2	
Epidendrum ovulum					
Catasetum tridentatum	11	3		-	
Stanhopea grandiflora					
— " — (14 & 15) —	1	14	6		
Epid. cochleatum 24	1	2	3		
" odoratissimum					
Rodriguezia secunda —	-	4	1		
Brassia Lanceana	[illegible]	3	11		
Gongora mac. fusca —	11	5	2		
Lælia purpurata —	1	23	4	2	[illegible]
Perrinii —	2	56	-	-	
Cyrtopodium Andersonii	4		1		

	lss	lfd	gr	fl.	
Sophronitis grandiflor. 1	7	6	-	1	
Dendrob. chrysanthum	[illegible]	5	-		
Cyrtochilum maculat.	3	1	1		
Oncidium sphacelatum					
Stanhopea Ruckeri —	2	14	3		
— " oculata —	18	12	4		
Trichopilia tortilis —	4	4			
Broughtonia sanguinea	2	8			
Lælio-pseis lilacina —		4			
Brasavola nodosa 1	13	2			
— " — cordata 2	2	[illegible]			
— " — ? 3	3	[illegible]	-	1	
Bletia Shepherdii —	10	9	4	[illegible]	[illegible]
Epidendr. fragrans —	11	10	1		
Schomburgkia Jamaica	1	9	2		
Oncidium luridum	2	[illegible]	[illegible]		
Gongora mac. (pot)	13	10	8		
Epidend. crassifolium	1	1		8	
Brasavola Digbyana —	6	19	1		
Stanhopea tigrina —	51	37			
Dendr. Pierardi 2 —	2		-		[illegible]
Paxtoni —	30	8			
Cattleya amethystina	9	13	4	[illegible]	
Leptotes bicolor	118	[illegible]		12	[illegible]
Limatodes rosea	9	-		1	
Dendrobium Farmeri —	13	9			

	lss	lfd	gr	f.	
Oncidium crispum	3	3	2	2	
Vanda gigantea –	35	6			
Schombugkia Pará	17	4	1	2	16 4
Vanda tricolor 1	2	4			
Dendrob. formosum –	18	5			
Cattleya citrina –					
" Leopoldii –	4	5	2		14 10
" T –	8	22	6		
Angraecum –		1			
Dendrob. Kingianum	1	7			
Miltonia candida	2	8	2		
Maxillaria graminea	4	5			
Aerides roseum –	4				
Dendrob. moniliforme	4				
Brassia maculata –	4	6	4		
Lycaste cruenta –	3	1			
Oncidium leucochilum					NB
Acineta Humboldtii	3	2	3		
Calogyne cristata –	5	1	2		
Odontogl. citrosmum	1	2			
Calanthe discolor –		1	2		
Disa grandiflora –	2	7	4	8	
Phalanopsis grandif. 1	4	1			
Chysis bractescens –	3	1			
Lycaste aromatica –	17	5			
Cattleya sp.	4	6			

	Iss.	Hd	gr.	fl.	
Vanda suavis	10	[illegible]			
Saccolab. guttatum	1	[illegible]			
Oncidium unguiculatum	2	1			
Ansellia Natalensis	1	14		2	[illegible]
Odontogl. Insleayi	2	5			
Epid. vitellinum	5	4			
Oncid. excavatum	[illegible]	7			
Dendrob. aggregatum	1	25			
" Jenkinsii	42	16			
Bolbophyl. Lobbii	1	1	2		
Burlingtonia decora	3	14	5		
Oncid. Lawrenceanum	7	8		3	[illegible]
Aerides odoratum 2	32	14	13	9	[illegible]
Oncid. bicallosum	2	8			
Sobralia macrantha	-	11			
Phajus maculatus	7	-	4		
" bicolor	2	1	[illegible]		
Bonatea speciosa		[illegible]	[illegible]	[illegible]	[illegible]
Bletia hyacinthina		11	1	1	[illegible]
Cattleya crispa, Stev.	6	22	5		
Odontog. grande, Skin	[illegible]	4			
" pulchellum	10	6			
Barkeria Skinneri	3	2	-	-	[illegible]
" spectabilis	11	4	-	2	
Epid. vitellinum Sk.	9	7			
Hartwegia purpurea	8	14		3	[illegible]

	Iss	lfd	gr.	fl.
Cattleya Trianei –		5		1
– " – elegans –		7		
Govenia superba –				
Saccolab. curvifolium	7	[illegible]		
Dendrob. macrophy. gig.	2	1		
Lycaste Skinneri	2	1		
Sophronitis cernua	1			
Dendrob. bicolor –	16	37	1	
– " – Pierardi (Low				
– " – Dalhousianum	2	2		
Oncidium barbatum	2	1		
" – triquetrum		3		
" – Cavendishian.				
Leptotes tenuis –	1	11	2	1
Lælia anceps –	3	11		5
– " – cinnabarina				
Epid. cinnabarinum	2	8		
Miltonia Moreliana	3	18	3	
Cattleya labiata –		1		
Vanda cærulea –	19	[illegible]		
Aerides affine ros.	12			
– " – suavissimum	1			
Phalænopsis gr. 2.	1	[illegible]		
Saccolab. Blumei D.	7	[illegible]		
Vanda tricolor. 2. –	11			

	Iss	lfd	gr.	flo.	
Cattleya Aclandiæ –	4	2			
Epid. atropurpureum	1	3		1	02
" macrochilum	9	11	–	2	[illegible]
Houlletia Brocklehurst.		5			
Dendr. Dayanum	10	9			
" tortile, ros.	1	3			
" adunicum	4	1			
Epid. erubescens.	2	1	2		
Saccolab. præmorsum	1	[illegible]			
Vanda cristata –	[illegible]	[illegible]			
Dendr. densiflorum	5	[illegible]			
Lycopetalum crinitum	1	3	3		
Lælia majalis –	4	1			
Dendr. fimbriatum. Pot		3			
– " – " – Board		5	1		
Odontogl. 1	2	–	1		✓
2	5	–	2		✓
3	4	1	–		
4	3	–	1		
5	27		1		
6	10	2	2		
7	9	3			
Sophronitis longifolia	36	15	14		
Lælia 85.	12	5			
Brassavola grandiflo.	5	12	2	3	
Cattleya maxima					

	lss	lfd	gr.	fl.	
Oncid (from Rhipsalis)	11				
Nasonia cinnabari.					
Helcia sanguinol.	–				
Oncid. phalonopsis					
" – cruellatum					
Odontogl. 141. —	11				

Modest

Cattleya crispa 1
" trianaei 1
Lycaste deppei
" jenisch. var
Oncidium pulvis 1
Stenorrhynchus ornit. 1
Cypripd. acaule
Cattleya α.
Catasetum macrocarpum
Oncidium ξ.
Mormodes luxemburgia
Epidendr. cinnabarinum
" atropurpureum
Odontoglossum cervantesii
Lycaste cruenta
Oncid. ephemerum 1
Maxillaria luteola V.
Thunia marshalliana
Dendrobium lamellatum

Bad.

Calanthe vestita
Oncidium prunum 1
Oncid. flexuosum
Phajus tankervilliae
Lycaste skinneri
Oncidium ampliatum
Vanda tricolor
Lycaste skinneri 1/2
Miltonia clowesii
Oncidium ε
Stanhopea tigrina 1
Rodrigueza decora
Gongora quinquenervis 1
[illegible]
Cattleya labiata vera
Cattleya m. semoni
Oncid. sphacelatum
[illegible] 1/2
Lycaste skinneri dbl
Rodr. secunda

Very good

Cyptopodium Anders.
Dendr. chrysanth.
Sophronitis grandif.
Laliopsis lilacina
Epid. fragrans
Oncidium Carthagin.
Gongora (Trail
Stanh. ligrina Tr.
Dendr. Pierardi Tr.
" Paxtoni

Moderate

Jonopsis paniculata
Cyrtochil. macul.
Oncid. sphacelat.
Stanhopea venusta
" oculata (V.
Trichop. tortilis
Schomb. (Jamaica
Brassavola Digbyana

Bad.

Bletia Shepherdi
Jonopsis tenera

1864. Very good.

Fen[illegible] elongata
Calogyne speciosa
Cattleya Forbesii
Cypripedium insigne
" venustum
Lanid. mosaicum
" nobile
Miltonia spectabilis
Stanhopea insignis
Cattleya mossiae
" " sup.
Cypripedium Harrisianum
Onci. cancellatum
Lania tenera
Cremastra [illegible]
Lanid. Pierardii
Calia Dawsonia
Sclia alba
Lanid. speciosum
Cynoches [illegible]
Cymbid. gigantea
Cattleya [illegible]
Dendr. nobile
Maxill. [illegible]
Onci. [illegible]
Stanhopea [illegible]
Dendr. [illegible]
Onci. [illegible]
Epidendrum [illegible]
Salia
Stanhopea grandiflora
Epidendrum [illegible]
Brassia [illegible]
Sclia [illegible]
" Perrinii
Cyrtopo. [illegible]

Dendrob. chrysanthum
Stanhopea Ruckeri
Trichocelis tortilis
Laliopsis lilacina
Brassavola nod. 1. 2. 3
Bletia Shepherdii
Epidendr. fragrans
Schomb. Jamaica
Oncidium tigrinum
Gongora (Trail
Epidend. crassifolium
Brassavola Digbyana
Stanh. ligrina (Trail
Lanid. Paxtoni
Cattleya [illegible]
Sophro. tortilis
Linas [illegible]
Lanid. Farmeri
Onci. [illegible]
" crispum
Landa [illegible]
Disa radicans
Lycaste [illegible]
Schomburgkia "
Lania [illegible]
Lanid. [illegible]
Cattleya [illegible]
" Skinneri
" "
Miltonia [illegible]
Masdevallia [illegible]
Cattl. Mossiae

Record of Growth. 1863.

Very Good.

Dendrobium ornatum
Coelogyne speciosa
Cattleya crispa
Cypripedium insigne
Dendrob. moschatum
" nobile
Odontoglossum spectat.
Odontoglossum alba
Zygopetalum Mack.
Oncidium lanceanum
Lycaste Lemonii
Epid. "C. citrina"
Dendr. Pierardi
Cattleya macrostachya
Cattleya Bleia
Cattleyas rhoifolium
Lycaste speciosum
Cypripedium barbatum
C. Hayanum Rodrigesii
Maxill. Harrisonia
Oncidium ?
Stanhopea oculata
Oncid. altissim.
Laelia ?
Epid. nocturnum
Brassia Lawrenciana
Gongora Bara
Cattleya purpurata
" Percivali

Moderate

Calanthe vestita
Cattleya Forbes
Dendrob. densiflor.
" pulchellum
Cattl. Mossiae ?
Phajus Wallichii
Lycaste Skinneri
Cymbid. gigantem
Rodriguezia secunda
Phajus albus

Bad.

Cattleya Mossiae
Cypripedium venustum
Goodyera discolor
Odontogl. grande
Oncid. flexuosum
" papilio
Phajus Tankervilliae
Stanhop. grandiflora
" insignis
Oncid. ampliatum
Calanthe tankerfiel.
Mult. Cuvierse ?
Epid. cerasinum

1864

Feb. 2. Oncidium ? Barkeri. Potted.
Cattleya Skinneri "
Odontogl. citrosmum Surfaced
8. Oncidium μ Surfaced
— " — δ "
Cattleya ν "
Onci. papilio majus. Blocked.
10. Dendr. moniliforme. Potted.
Aerides odoratum Surfaced
12 Gongora 29. — Wire basket
July 29. Surfaced & mossed many.
Aug. 1 Dendr. moschatum. Block to pot.
Dec. 5. Miltonia spectabilis
7. Dendrob. Chrysanthum (basket
14 Chysis bractescens.
21. Epidendr. vitellinum
23. Miltonia candida.

Dec. 25. 1863.

	lfss	lfd	gro	fl.sh	
Aerides odor					
Calanthe vestita				2	
Calog. spec.					
Cattleya crispa 1					
C. Forbesi					
C. Mossiae 1					
Cypr. insigne					
" venust.					
Dend. densifl.					
" moschat.					
" nobile 1					
" pulchel. 1					
Goodyera disc.					
Milt. spect.					
Odontog. grande					
Oncid. flexuo.					
" papilio					
Phajus Tank.					
Stanh. grandif.					
insignis					
Catt. Mossiae 2					
" — " superba					
" crispa 2					
Perister. elata					
Zygopet. Mack					

	lss	lfd	gro.	fl. s.
Oncid. ampli.				
Lancean. 1	1			
Vanda teres				
Phajus Wallich				
Epid. ("P. citrina"				
Dend. Pierardi				
Celia macrost.				
Lælia albida				
Cymb. aloifol.				
Dend. speciosi.				
Lycas. Sk. 1				
Cypri. barb. 1				
Cymb. gigant.	3	2		1
Catt. Loddig.				
" α. (Sclandrie				
Calanth. veratr.				
Dend. nob. 2				
Lyc. Skin. 2				
Max. Harr.				
Oncid. γ				
Milt. Cl. δ. –				
Oncid. ζ –				
– " ε –				
Stanh. ocul. 1				
" tigrina 1				
" η.				
Dend. mosch. 2				
– " – " 3				

	lss	lfd	gro.	fl. sh
Dend. nob. gr. f.				
Stanh. Devon.				
Oncid. altior.				
Epid. K.				
" λ				
Lælia θ				
Rio Schomb.				
2 Catas. Rod.				
3 "				
4 "				
5 "				
6 "				
7 "				
8 "				
9 "				
10 "				
11 "				
12 "				
13 Stanh. grandif.				
15 "				
17-19 Epid. noct.				
21. Lal. (long b.				
22 " (short "				
26 Brasav.				
27 Rodrig. dec				
28 Brassia L.				
29 Gongora				
30 Brassia L.				
31 } "				
33 } 34 – "				

	Iss.	l/d	gro.	A. sh	
37 Noty. broad					
38 " punct.					
39 — " —					
40 — " —					
41 — " —					
42 — " —					
Phajus albus					
Lalia purp.					
" Perrinii					
Cyrtop. And.					
Eped. aur. 1					
Dend. chrys.					
Soph. grandif.					
Ionop. pan.					
Eped. aur. 2					
Cyrtoch. mac.					
Oncid. vip. trac.					
Stanh. ven.					
" ocul. V.					
Trich. tortil. 1					
Brought. s. M.					
Onc. Lanc. "					
" " 3					
Bro. sang.					
Laliopsis. cil.					
Brasav. 1					
" cordata 2					
" 3					
Bletia Sheph.					

	Iss.	lfd	gro.	l.sh.	
Epid. fragrans					
Sonopsis tenera					
Schomb. tibic.					
Oncid. Carthag.					
Gongora (Traill's					
Epid. crassifol.					
Brasav. Digb.					
Stanh. ligr. (Fr. v.					
Dend. Pier. (pot					
" Paxtoni					
Cattl. amethyst.					
Leptotes bicolor					
Limatodes rosea					
Dend. Farmeri					
Oncid. pap. maj.					
" crispum					
Vanda gigantea					
" — " 2					
Disa grandif.					
Para. Oncid. μ					
. Cattl. ν.					
. Coryanthes o					
. π					
. Maxillaria ρ-					
. σ					
. Schombuigkia					

	lss.	lfd	gro	fl.s.	
Vanda tricolor				4	
Dend. form. g.					
Cattl. citrina		2			
Burlingt. ven.		5	3		
Cattl. Leopoldii					
— " — T.					
Cyprip. V.					
Trich. suavis					
Cypr. b. grandif.					
Cattl. M. s.p. 2					
Dend. Kingian		2			
Trich. tort. 2					
Milt. cand.			2		
Maxil. gram.		5	3		
Lycaste tetrag.					

Dec. 21. 1854.

	lflss.	lfd	gro.	fl.s.	
Aerides odorat. 1	14	scav.	2	shrot	2 c.
Calanthe vestita					
Calcyne speciosa					
Cattleya crispa					
— " — Forbesi	4				
— " Mossiæ 1	5				
Cypriped. insigne					
— " — venustum					
Dendrob. densiflr.					
" moschatum					
" nobile 1					
" pulchellum					
Miltonia spect.					
Odontog. grande 1					
Oncid. flexuos.					
" papilio 1					
Phajus Tankerv.	?				
Stanh. grandif. 1					
" insignis					
Cattl. Mossiæ 2					
" — " superba 1					
Peristeria elata					
Zygopetal. Mack.					
Oncid. ampliatum					
lanceanum 1					
Vanda teres					
Phajus Wallichii					
Epidend. ciliare					

	lss	lfd	gr.	fl.			lss	lfd	gr	fl.
Dendr. Pierardi 1	24	7		100	fl. buds	Epid. nocturnum		24		
Catia Bauriana	18	7	old ps 8. 9			-"- cochleat. 21				
Lalia albida –	2	7				" odoratissis.		4	4	
Cymbid. aloifol.	7	[illegible]		1		Rodrig. secunda		3	4	
Dendr. speciosum	12	9		1		Brassia L. aug. 29				
Lycaste Skinn. 1	9	4				Gong. macul. 1	8	4		
Cyprip. barbat. 1						Brass. Lawr. Ck.	6			
Cymbid. gigant.						- " 31 pot				
Cattl. Loddigesii		3				— " — 34 "				
-"- α		8				Phajus albus –				
Catanthe verrucif.						Lalia furpur.				
Dend. nobile 2						" Perrinii 1				
Lycaste Skinn. 2						Cyrtop. [illegible]				
Maxil. Harris.						Epid. aurant.				
Oncid. bic. γ.						Dendr. Amys.				
Milt. Clow. δ-						Sopher. grandif.				
Oncidium ζ						Sonepis panicul.				
— "— ε						Cystoch. macul.				
Stanh. oculata 1						Oncid. sphacel.				
tigrina 1						Stanh. Ruckeri				
Dendr. nosch. 2						" ocul. V.				
-"- nob. grift.						Trichop. tort. 1				
Stanh. Devon.						Oncid. dane. 2				
Oncid. altiss.				2		" — " — 3				
Epid. ordium						Brought. sanc.				
Lalia θ —						Laliops. lilac.				
Schomb. Rio –						Brasav. nod. 1				
Stanh. grandif. 2						-"- cero. 2				
L. – 15						" — 3				
						Bletia Shepherdi				

	lss	lfd	gro.	fl.	
Epidend. fragrans	2	—	3		
Schomb. Jamaica					
Oncid. luridum					o
Gongora (Trailli)					o
Epid. crassifol.					
Brasav. Digbyana					
Stan. h. tigr (cr)					
Dend. Pierardi 2					
— " — Paxtoni					
Cattl. amethyst.					
Leptote. bicolor					
Limat. rosea 1					
Dendr. Farmeri					
Oncid. pap.° maj.					
— " — crispum					
Vanda gigant. 1					
" " 2					
Disa grandif. h.					
Oncid. p. Para					
Cattl. v. " sup.					
Coryanth. o — " —					
π "					
σ " —					
Schomb. Para					
Vanda tricolor					
Dendr. formosum					o
Cattleya citrina					
Burlingt. venusta					

	lss	lfd	gr.	fl.	
Cattl. Leopoldi					
" T					
Aspasia					
Trichop. suavis	2	3			
Cypripe. tert. gr.					
Catt. M. sup. 2		3			
Dend. Kingian.					
Trich. tortil. 2					
Mil. cornuta					
Max. grandiflora					
Lycaste tetragona					
Aerides rosseum					
Dendr. monilif.					
Brassia maculata					
Sacinolaeas					o
Cattl. Skinneri					
Lycaste Skinneri					
Oncid. Cavendish.					
Acineta Humb.					
Renanth. coccinea					
Calogyne cristata					
Odonto. citrosm.					
Oncid. Wentworth.					
Cattl. th. dian.					
Disa grandif. h.					
Phalaen. grandif.					
Cleisis bractesc.					
Cattleya superba					

	lbs	lbs	gr.	fl.
Lycaste aromatica				
Cattleya [illegible]				
Vanda [illegible]				
Saccolab. [illegible]				
Brassia Wrayae				
Oncid. unguiculat.				
Anselia [illegible]				
Odontog. [illegible]				
Cyp. [illegible]				
Oncid. [illegible]				
Oncid. [illegible]				
" [illegible]				
Phalaen. [illegible]				
Dendrob. [illegible]				
Oncid. [illegible]				
Aerides [illegible]				
Oncid. [illegible]				
Sobr. [illegible]				
Phajus [illegible]				
" [illegible]				
Cyp. [illegible]				
Lelia [illegible]				
Pleurot. [illegible]				
Oncid. [illegible]				
Vanda [illegible]				
Catt. [illegible]				
Cyprip. [illegible]				
Oncid. [illegible]				

Potting Record

1864.

Jan. 21. Bletia Shepherdii (Surfaced
Cyrtopod. Andersoni
Phajus altus
Calanthe vestita - 2 pots.
Linatodes Rosea
Dendr. Paxtoni } Surfaced
Brassia Lawrence. }
22 Cymbid aloifol. Surfaced
" giganteum Potted
Trichopilia tortilis "
Oncidium sphacelatum
Epid. crassifolium. Surfaced
23. Dend. nobile — "
" chrysanth — "
Cattl. amethyst. — "
" crispa 1 & 2. — "
Gongora (Traill — "
Lælia purpurata — "
" Perrinii — " —
25. Calogyne speciosa - Basket
Dendr. Pierardii. 2 "
Epid. 22 — Potted
Cyrtoch. macul. — " -
Cattl. Mossiæ 1. "
" " sup. 1 - Surfaced
Calanthe veratrif - Potted.
28 Stanhopea Devoniens. Surfaced

Feb. 1 Acineta Humboldtii. (Basket)
Lælia anceps (mossed)
Oncidium concolorum (Potted
Calogyne cristata — "

1863. Nov. 13. Re-potted Cattleya Fabesii (1)
Nov 28. Vanda teres
Dec 31. Phajus Tankerv. Surface
Milt. spectab.
Zygopet. Mack.
Jan 25 Celia macrostachya
Aug 20 Cyprip. barbatum
Dec. 9 Epid. nocturnum
Jan 19. ? " coeleatum
Aug. 21 Brassia Lawrenciana
1864.
Jan. 13. Oncid. flexuosum
Dendr. densiflor. (Surf.)
Lelia albida — (" —
16 Epid. aurantiacum
Maxill. Harrisonia
18. Brassavola Digbyana
Epid — Kraus No, in one pot
Cattleya Loddigesii
Oncidium Lanceanum 1
" ampliatum
" altissimum
19 Cattleya α. (Mclaudia)
Lelia β.
Lycaste Skinneri 1 (Surf.
Do. Do. — 2 (
Oncidium γ
Odontogl. grande
20. Cypripe. insigne } Surfaced
" venustum
" barbatum
Dendrob. speciosum
Phajus Wallichii
Schomburgkia No. 1. Para

1865 to 1864

Superior	Inferior
Dend. nobile	Brasav. cordata
Sophr. rauiff.	Dend. moniliff.
Limat. rosea	Notylia triaenia
Calaset. bid	Dend. Pierardi 2
Trichop. tortilis	Oncid. altissim.
Anselia Nat.	Calan. Bauerana
Epid crassif.	Calan. veratrif.
Physis braid.	Gongora macul.
Lycaste Skinn.	Oncid. luridum
Dend. nob. gr.	~~Epid. xiphio.~~
Catanthe discolor	Catt. Mossiae 2
Catt. amethyst.	Oncid. flexuosum
Liparis tenuis	Aerides odor. 1
Dend. Dalhous.	Epid nocturnum
Aerid. odor. 2	Burlingt. venusta
Oncid. hieroglyph.	Epid. ciliare
Aerides Lobbii	Stanh. oculata V.
Vanda teres	Satyrium erectum
Lelia purpurata	Miltonia candida
Epid. vitellinum	Dend. chrysanth.
Sobralia macr.	Sonopsis pauciul.
Stanh. insignis	Catt. superba
Cattl. crispa	

Odont. grande
Brassia Lanceana
Cattleya elegans

1863. Flowering.

Promise		Flower
Apr. 1	Maxillaria Harrisonia	Ap. 3
	Cattleya Mossia —	" 21
	" Forbesii —	abort.
	Epidendrum K. —	abort.
	Aerides odoratum —	May 24
	Lælia Perrinii —	abort.
	Stanhopea oculata —	May 28
4	Cœlogyne speciosa —	July 27
	Odontoglossum grande —	growth
12	Calanthe veratrifolia —	died
May 21	Cattleya Forbesii —	July 27
25	Catasetum 3 —	July 31
26	Mormodes 5 —	(Aug.)
June 1	Epidendrum 19. —	June 24
4	Mormodes 12.	July 27
10	Cattleya Loddigesii —	abort.
14	Stanhopea tigrina —	died
27	Catasetum 2 —	Nov. 10
July 2	Sonopsis paniculata	Sept 30
4	Brasavola cordata —	July 27
12	Lælia Perrinii —	Oct. 22
20	Cattleya Mossia No. 2.	May 14
	Mormodes 4 —	Aug.
	Mormodes 8 —	Aug.
	Mormodes 10 —	Aug.
Aug 15.	Phajus albus —	Aug. 20
	Cypriped. insigne —	Oct. 17
	Epidendrum nocturnum 19 —	Sept. 8
	Zygopetalum Mackaii —	Sept 16

Prom.	2	Dest.	Flower
Aug. 19	Oncid. flexuosum	abort	—
20	Calanthe vestita. —		Oct. 28
	Cattleya Loddigesii	abort	—
	Epid. nocturnum (17		Oct. 15
	Rodriguezia secunda -		Nov. 14
	Epid. nocturnum (18		Sept. 8
	Cypripe. venustum		Sept. 25
	Mormodes 6 —		Nov. 2
26	Cattleya Mossiae 1. —	abort	—
Sept 1	Dendrob. chrysanthum		Oct. 9
	Cymbid. giganteum		Oct. 4
	Phajus Tankervillia	abort.	—
6	Stanhopea sc. (Veitch)	flo.	Oct. 11
	Stanhopea (Rio 13) gr. flo.	flo.	Nov. 14.
12	Brassavola nodosa 1	eaten	—
	Notylia 41. — —	flo.	Oct. 17
13	Oncidium V — —	gro.	—
14	Laeliopsis lilacina 1	flo.	Apr. 13.
	Oncidium papilio (maj	flo.	Oct. 8
Oct. 10	Sophronitis grandifl. —	abort	—
	Brassavola 2 —	flo.	Dec. 8
15	Notylia 37. tridactyla	flo.	Jan. 31
16	Epidendrum 22. odor.ss	flo.	May 15.
	Oncid. Carthaginense	flo.	May 14.
21	Epidendr. amphibrachium	abort	—
Nov. 10	Cattleya Mossiae 2 sup.	flo.	Apr. 24.
	Dendrobium Kingianum	abort	—
17	Leptotes bicolor —	flo.	Mar. 9
Dec. 1	Dendrob. Pierardi 1.	flo.	Mar. 27
4	Oncid. altissimum	flo.	Apr. 5.
23	Dendrob. nobile 1	gro.	—

Epid. vitellinum.	Guatem.
Dendrob. aggregat.	India
Oncidium bicallosum	Guatem.
Phajus maculatus	Nepal
" — bicolor	Ceylon
Epidend. Stamfordian.	Guatem.
Bletia hyacinthina	China
Epid. vitellinum	Guatem.a
Hartwegia purpurea	— " —
Govenia superba	— " —
Bletia spectabilis	— " —
Dendrob. bicolor	India
— " — Dalhousian.	— " —
Neottia speciosa	Jamaica
Onci. bicuspum	"
" Cavendishianum	Guatem.a
" barbatum	Brazil
Lalia cinnabarina	— " —
" anceps	Mexico
Leptotes tenuis	Brazil
Epid. cinnabarinum	Pernambuco
Bletia Skinneri.	

Labels done

Onci. altissim.
Aerides odoratum
— " — Lobbi
Dendr. moschatum
— " — Paxtoni
Vanda tricolor
" gigantea
Cymbid. giganteum
Phalaen. grandiflora
Brasavola Digbyana
Dendrob. Dayanum
Brongnt. sanguinea
Laliopsis lilacina
Onci. crispum
Leptotes bicolor

Cattleya amethystina	Braz.
" crispa ✝	"
" elegans	"
" Forbesii	"
" Leopoldi	"
" Lodigesii	"
" Mossiæ	S. Amer
" — " —	Guiana
" Skinneri	Guatem.
" superba	Para
" Trianei	N. Gran.
Aerides odoratum	India
" — roseum —	"

Brassia maculata	Jam.ca
Bletia Shepherdi	— " —
Calanthe vestita	India
" veratrifolia	— " —
Calogyne cristata	Nepal
" speciosa	Borneo
Cymbid. aloifol.	China
" gigantium	Nepal
Cystopodium tenuis.	W. Ind.
Cyrtochil. macul.	Mexico
= Dendrob. Farmeri.	India
" chrysanthum	— " —
" densiflorum	— " —
" nobile	— " —
" — " —	— " —
" pulchellum	Sylhet
" Pierardi —	India
" formos (sig.)	— " —
" Jenkinsii	— " —
" speciosum	Queensland
" Ringianum.	Australia
" moniliforme	Japan
Lælia anceps	Mexico
" Perrinii	Brazil
" purpurata	— " —
Lycaste Skinneri	Guatem.a
" cruenta	— " —
" aromatica	Mexico
" tetragona	Brazil
" Harrisonia	— " —
Limatodis rosea	Pegu

Maxillaria graminea	Demer.a
Miltonia spectab.	Brazil
" candida	— " —
= Odontoglossum grande	Mexico
— " — "	— " —
— " — citrosmum	Guatem.a
— " — pulchellum	— " —
Oncidium flexuosum	Brazil
" papilio	Trinidad
" sphacelat.	Oaxaca
" luridum (gut.)	Jamaica
" leucochilum	Guatem.a
Phajus Tankervill.	China
" albus —	Sylhet
Renanthera coccin.	China
= Sophronitis grandifl.	Organ Mts
Stanhopea tigrina	Mexico
" oculata	— " —
" Ruckeri	— " —
" Devoniensis	Peru
" grandiflora	Trinidad
" insignis	Brazil
Sobralia macrantha	Mexico
Trichopilia tortilis	— " —
Vanda teres —	Sylhet
" suavis —	Java
Zygopet. Mackaii	Brazil
= Chysis bractescens	Guatem.a
Sarcopodium Lobbii	India
Saccolabium guttatum	India
Brassia Wrayæ —	Guatem.a
Anæctochilus Natalensis	Natal
Odontogl. Insleayi	Mexico

1st Class Desiderata

Cattleya labiata
Chysis
Coryanthes
Odontoglossum pulch.

Onci. pulchellum
Phal. amabilis
Sobralia
Vanda caerulea
suavis

Sir Henry Barkly, K.C.B. . . . . .

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Col. William James Smythe, R.A. .

Lieut.-Col. Alexander Strange . . .

Robert Warington, Esq. . . . . .

Nicholas Wood, Esq. . . . . .

Beef

Aerides odor.
Lobbi
Cattl. crispa II
Mossiae
" superba
Loddigesii
Acklandiae
Amethyst.
Trianei
elegans

Dendrob. densifl.
moschatum
nobile
pulchellum
chrysanth.
Paxtoni
Jamesii
macrostachy.
aggregatum
Jenkinsii
bicolor
Dayanum
Dalhousianum

Medd.

Calog. speciosa
Cath. Forbesii
Cypripe. insigne
venustum
Oncid. flexuos.
Cymb. aloifol
giganteum
Dend. speciosum
Maxill. Harrisii.
Oncid. ac lesian
Cuthbertianum
Barkeri
Cavendishian
Schomb. Parkinsonii
" Jamesii
Epid. vanheerianum
cassifol.
Rodrig. densa
Brassia Lancesiana
Gongora
" 8. maculata
Epid. aurantiacum

Good.

Calanthe vestita
Stanh. grandiflora insignis
Perister. elata
Lycaste. Mark.
Vandaceae
Dendr. pierardi
~~Celia varetod.~~
Cypr. barbatum
Cal. veratrifol
Stanh. oculata
hippina
Dermiana
cerina
Houlletia Brock.
Chopin albus
Cyclop. Andrews.
Wagnerianum
tenera

— Poor —

Goodyera discolor
Catasetum tridentatum
Notylia lunata.
Sobralia macrolep.
~~Dendr. Kingianum~~
Celia Bauerana
Bonatea

Medd.

Brassavola cordata
Epid. prasinum
Max. graminea
Lycaste tetragona
Acin. Humboldtii
Calanthe discolor
Epid. ciliare
Bletia hyacinth.
Sophr. cernua

Best

Milt. spect.
Odont. grande II
" pulchellum
Oncid. papilio
" majus
Phajus Tankerv.
Wallichii

Oncid. ampli.
Lanceanum

Lælia albida
purpurata
Perrinii
anceps

Lycaste Skin.

Sophron. grandif.

Saliopsis Dom.

Brassavola Digb.

Leimatodes rosea

Vanda gigantea

Disa grandifl.

Vanda tricolor

Dendr. formos.

Cattl. citrina

Bulbopht. ben.

Cattl. Leopoldi

Cattleya — ?

Trichopi suav.

Catt. moss. sup 2.

Aerides roseum

Dendr. moniliff.

Cattl. Skinneri

Cœlog. cristata

Odont. citrosm.

Oncid. Barkeri

Phalæn. grandifl.

Chysis bractescens

Cattl. superba

" sp. ?

Vanda suavis

Good

Cyrtoch. macul.

Oncid. sphacel.

Trichop. tortilis

Brought. sanguin.

Bletia Shepk.

Leptotes bicolor

Oncid. crispum
triquetrum

Trich. tortilis 2

Milt. candida

Brass. maculata

Lælia anceps

Lycaste cruenta

" aromatica

Brassia Wrayce

Anselliu Nat.

Bolboph. Lobbi

Dendr. Kingian.

Hartwegia purpurea

Neottia speciosa

Lepotes tenuis

Best

Saccolab. guttatum
curvifolium

Oncid. unguiculatum

Odontogl. Insleayi

Epid. vitellinum
majus

Oncid. excavatum

Dend. aggregat.

" Jenkinsii

Bulbopht. decora

Oncid. Lawrenceanum

" bicallosum

Sobr. macrantha

Phajus macul.

" bicolor

Eped. Stamford.

Bark. Skinneri

" spectabilis

Gomesa superba

Orchids Potted, 1865.

1865
Jan. 3 Sobralia macrantha. (Loan)
Oncidium Lanceanum 1.
Lysopetalum Mackaii
Cattleya sp.? (Stevens 81)
Phajus bicolor.
1 Acrides cirratum 1. (surfaced
Bletia hyacinthina
Calanthe discolor
Lycaste tetragona
5 Epidendr. odoratissimum (surfaced
Cypriped. barbatum (3 in one)
Oncidium bicall. γ.
6 — " — ζ
— — " ε
" μ
Brassia Lawr. (2 in one)
" — Wrayæ
Bolbophyllum Lobbii (in pan)
7 Phajus Tankervillia
— " — Wallichii
Vanda gigantea (3 in one)
9 Odontoglossum Insleayi
" — citrosmum
Epidendrum aureantiacum
Trichopilia tortilis 1.
Cyrtochilum maculatum
Lalia — — ? θ.

27.

1865
Jan. 10 Cattleya Skinneri
Oncidium leucochilum
Lycaste cruenta
" aromatica
" Skinneri (2 in one
Odontogloss. grande (2 in one)
Calogyne cristata
Lælia albida (surfaced)
Oncidium sphacelatum (2 in one)
11 Dendrobium speciosum
Lælia Bauerana (surfaced.
Trichopilia suavis.
Sonopsis paniculata (Mossed)
Schomburgkia (Para) & Rio added
12 Epidendrum ovulum
Maxillaria graminea
Cattleya Mossiæ (4 in one
Oncidium altissimum
Miltonia Clowesii (?)
Angræcum —
Vanda tricolor
—"— suavis
Saccolabium guttatum
Stelis rosea
13 Oncidium Barkeri
—"— unguiculatum
Dendrobium formosum
Cyrtopodium Andersoni
Bletia Shepherdii

56.

1865
Jan. 14 Oncidium luridum
Cyrtopodium Paxtoni
Peristeria elata
Renanthera coccinea.
Phajus maculatus
Epidendrum Stamfordianum
Cymbidium giganteum
15 Maxillaria Harrisonia
Lælia Perrinii (2 in one
Oncidium flexuosum
Cattleya — (fine var.)
Epidendrum nocturnum (Surfaced
Cymbidium aloifolium
17 Cattleya crispa 1.
—"— (Stevens'
—"— Forbesii
—"— Loddigesii
18 —"— amethystina
—"— Leopoldii
—"— Mossiæ superba 2.
Dendrobium densiflorum
Gongora, Traill's. (Surfaced)
Lælia purpurata.
19 Oncidium bicallosum
Brassia maculata
Calanthe veratrifolia
Trichopilia tortilis, 2.
Oncidium Lanceanum Jam. (Surf.)
Epidendrum cochleatum?
Milt. spectabilis. (to seed-pan.

86.

Jan. 24 Dendrobium moniliforme (Surfaced
— " — Kingianum — — " —
Phajus albus.
30 Cypripedium insigne
Dendrobium nobile (2 in one
— " — — " grandiflorum
Oncid. crispum
Dendr. Farmeri } trimmed.
Cattleya citrina. re-blocked,
Feb. 8 Broughtonia sanguinea. Mossed.
16 Cypripedium venustum.
15 Calanthe vestita
20 Brassavola 3. Re-blocked.
21 Dendrobium pulchellum (Surfaced
27 Oncidium excavatum
28 — " — Lawrenceanum
Mr 1 Lælia anceps. (crocks dsph-gn.
28 Limatodis rosea (2 in one)
Ap. 5 Brassavola nodosa (on board.
6 Odontogloss. grande (Skinner
— " — pulchellum
17 Anselliа Natalensis
28 Oncidium papilio (Mossed)
Dendrob. Jenkinsii — " —
— " — aggregatum (Tiled.)

1865 Orchids Potted &c. 1866.

c. in. 7 3 Aerides affine roseum
5 Cyrtopodium Andersonii
Oncidium Cavendishianum
Govenia superba
6 Phajus maculatus
— " — bicolor
Calanthe veratrifolia
Miltonia candida
6 Angraecum —
11 Phajus albus
13 Cypripedium barbatum
Dendrobium Dalhousianum
16 Epidendrum cinnabarinum
18 Bulger & X.
" Dec. 1. 1864. C.
56. 16 Calanthe discolor.
22 " vestita, in 3 pots)
Limatodes rosea (in 5 thumb pots
Bletia Shepherdii
56. 20 Dendrobium formosum (giant.
Stenorrhynchus fragrans
28 Bonatea speciosa

Surfaced. (back).

Jan 20	Lælia Perrinii
	Cattleya amethystina
	" elegans
	" crispa (Stev.)
	" sp. T.
	" Lodigesii
	" Trianæi
22	" labiata
	" crispa 1.
	" Leopoldi
	" alboxia
	" Forbesii
Feb. 5.	Epidendr. vitellinum 1.
	Maxillaria graminea
	Lycaste Skinneri
	Oncidium ephacelatum
15	Sobralia macrantha
16	Lælia albida
	" anceps 1
	Lycaste cruenta
	" aromatica
	Sonderianum moniliforme
	Oncidium leucochilum
	Odontoglossum Insleayi
	" maculatum
	" cirrhosum
	Cyrtochilum reticulatum

Surfaced.

Feb. 17	Cœlia Bauerana
	Dendrobium speciosum
	Odontoglossum grand. 1.
	Trichopilia tortilis. 1.

Surface 4.

Jan 3. Vanda gigantea
5 Schomburgkia (Lane)
6 Miltonia cuneatabilis
8 Sarcopodium Lobbii
landa teres
Pajus Tankervillia
Miltonia Clowesi
Renanthera coccinea
Gongora (Traill)
Brassavola digbyana
Vanda tricolor l.
Dendrobium Paxtoni
— " — nobile (grandifl.
Lisa grandiflora
Brassia maculata
Aerides Lobbii
10 Oncidium Lawrenceanum
Miltonia Moreliana
Lalia cinnabarina
Lycaste tetragona
11 Oncidium excavatum
Dendrobium moschatum
" nacrophyllum, sej.
" nobile l.
13 Lycaste Harrisonia
Calogyne cristata

Jan. 13. Cypripedium venustum
— " — insigne
Oncidium bicallosum
— " — V
15 Bulger's Jumb. 6: 1 and 2
Lalia purpurata
Cattleya sp. (Stev.)
Aerides odoratum, 2.
16 " roseum
Stanh. grandiflora, 13.
Aerides odoratum 1
Stanhopea Devoniensis
" grandiflora 1
Gongora macul. fusca
17 Stanhopea tigrina (Traill
Dendrob. chrysanthum
18 Bletia hyacinthina
Dendr. Pierardi, 2
" fuscatum
Stanhopea Ruckeri
19 " insignis 2
" sp. 14
Calogyne speciosa
20 Cymbidium aloifolium

(back

1864. Flowering.

Promise		Dest.d	Flower
Jan. 18	Cypriped. venustum	flo.	Mr. 15
	— " — barbatum	flo.	Apr. 1.
30	Dendrob. nobile album	flo.	Apr. 23
Feb. 1	— " — Pierardii. 2)	flo.	Mr. 25
5	Cattleya amethystina	abort	—
	Epidendrum F. —	flo.	Apr. 2
	Maxillaria Harrisonia	flo.	Mr. 30
14	Cypripe. barb. grandiflo.	flo.	Apr 26
	Bletia Shepherdi	flo.	May 14
15	Gongora (Traill's)	gro.	
	Cattleya Skinneri	abort	—
20	Epidendrum [illegible]	flo.	Apr. 1
	Cypripedium Andersoni	gro.	—
	Calanthe veratrifolia	flo.	May 11
24	Cypripedium insigne	flo.	May 5.
Mr. 3	Dendrobium densiflorum	flo.	Apr. 14
20	Oncid. odoratum		
	[illegible] 29	flo.	May 14
30	Stanhopea saccata		
31	Oncidium flexuosum	flo.	Mr. 21.
Apr 15	Broughtonia sanguinea	flo.	May 31
20	Oncidium papilio maius	flo.	May 16
29	Celia macrostachya	flo.	May 9.
May 1	Disa grandiflora		
10	Cymbid. eburneum	flo.	May 17.
24	Stanhopea tigrina (Fr.)	flo.	July 2
Jun. 2	" robusta	flo.	Aug. 4
4	Sacidopsis tilacina		
9	Cattleya Sodiiensis	flo.	Aug. 25
	Epidendrum ciliare	flo.	Aug. 8
	— " — nocturnum	flo.	Jn. 9, 19

		flo	Aug. 12
		flo.	Aug. 8
July 4	Burlingtonia rosea	flo.	July 25
	Lælia Perrinii	flo.	Oct. 27.
	Longpsis, lanicaulis	flo.	Oct. 20
	Lita melabenca	abort	———
	Cattl. crispa (Sk. cus	abort.	———
	Miltonia candida "	flo.	Oct. 9
	Odonto gl. Insleayi "	flo.	Aug. 11.
	Cypripe. barbatum "	flo.	Sept. 1
	Cattleya Forbesii	flo.	Aug. 15.
17	Lælia O	abort.	———
17	Schomburgkia	leaf	———
	Schomburgkia	leaf	———
	Lælio-psis lilacina	flo.	Apr. 7
30	Rodriguezia secunda	flo.	Oct. 31
Aug. 8	Calanthe discolor	leaf	———
	Notylia tridacna	flo.	Sep. 25
12	Brassavola cordata 1.	flo.	Sept. 19
	Stanhopea oculata V. (Jan. 31)	flo.	Aug. 16
	Cadyene speciosa	flo.	Sep. 15
16	Dendrobium chrysanthum	flo.	Oct. 16
18	Phaius altus 1	abort	———
	Lælia superata	flo.	June 28
	Oncidium crispum	flo.	Nov. 13
25	Miltonia candida 1	abort.	———
	Saccharum fragrans	flo.	Sep. 15
	" " roseum	abort.	———
	Catasetum tridentatum 5.	flo.	Sept. 8
	" " " 3	flo.	Oct. 16.
	" " " ~~2~~ 6	flo.	Jan. 13

Aug. 28	Leptotes bicolor	flo.	Feb. 26.
	Epidendrum fragrans	abort	———
	Broughtonia sanguinea	flo.	May 6.
29	Cypripedium venustum	flo.	Nov. 13.
Sep. 1	Oncidium papilio (mag.	died	———
3	Epidendrum oculatum	flo.	Apr 22
	Stanhopea oculata Veitch	flo.	Oct. 14.
	Cattleya Forbesii	flo.	Oct. 23
	Cypripedium insigne	flo.	Nov. 11
1	Cattleya superba	flo.	Oct. 24
5	Calanthe vestita	flo.	Jan. 1
	Cattleya Mossiæ 1.	abort.	———
	Limatodes rosea 1.	flo.	Dec. 28.
8	Limatodes rosea 2	flo.	Feb. 4
13	Brassavola cordata 2.	flo.	Oct. 24.
17	Lælia Perrinii Nov. 1	flo.	Oct. 29
	Oncidium bicallosum 7	abort.	———
	Cattleya amethystoglossa	leaf.	———
19	~~Cattleya Forbesii (again)~~		
	Dendrobium nobile 1.	flo.	Dec. 14.
	Aerides Amethystoglossum	flo.	Nov. 19.
	Oncidium 16	abort.	———
	Catasetum cristata	abort.	———
8	Cattleya Skinneri	abort.	———
	Epidendrum vitellinum	abort	———
10	Epidendrum nocturnum	abort.	———
	Cymbidium aloifolium	abort.	———
16	Stanhopea grandiflora 13.	died.	———
	Ansellia Natalensis	flo.	Mar. 11
20	Epidendrum aurantiac.	abort.	———
24	Dendrob. nobile 2 grandif.	flo.	Apr 29

Oct. 25	Cattleya amethystoglossa	flo.	July 8.
	Cattleya labiata	abort.	———
26	Bonatea ——— ?	— " —	———
28	Schomburgkia —	— " —	———
	Oncidium [illegible]	rotted	———
Nov. 3	Cattleya Mossiæ var. 2.	abort	———
	Cymbidium pyramidale	gro.	———
16	[illegible]	rotted	———
Dec. 3	Sophronitis grandiflora	flo.	Dec. 17.
	Oncidium altissimum	rotted	———
6	Dendrob. Pierardii	flo.	Mr. 24.
7	Chir. [illegible] crassifolium	flo.	Mr. 28.
20	Dendrobium speciosum	abort	———
	Calia [illegible]	abort	———
	Lycaste [illegible] Nov	flo.	Jan. 16
	Trichopilia tortilis	flo.	Mr. 4

Flowering. 1865.

From.		Dist.	Flower.
Jan. 31	Aerides odoratum 2	flo.	June 9.
Feb. 3	Cymbidium aloifolium	flo.	Apr. 21
4	Cattleya crispa (Stev.	flo.	Aug. 16.
9	Brassavola (3. —	broken off	
	Maxillaria Harr.°	flo	Apr. 21
16	Dendrobium pulchellum	flo	May 1
21	Chysis bractescens	flo	Apr. 5
26	Phajus Tankervillia	gro.	———
28	Calanthe vestitofolia -	abo.	———
Mr 11	Dendrobium densiflorum	flo.	Apr. 22
20	Stanhopea oculata -	root	———
25	Dendrobium Pierardii 2 -	gro.	———
29	Bletia Shepherdi	flo.	May 20.
Apr. 3	Cypripedium barbatum	flo.	May 21.
10	Lycaste Skinneri	flo	Apr. 11
18	Phalanopsis grandiflo.	abort	———
	Stanhopea oculata -	flo	June 20
	Aerides Lobbi	flo.	June 17.
21	Angraecum	flo.	June 26
	Rodriguezia secunda	flo	May 21.
	Vanda teres - -	flo	June 21
29	Lalia purpurata -	flo.	July 1.
May 2	Calanthe discolor	flo	May 5.
4	Schomburgkia (Jamaica	leaf	———
	Epidendrum odoratiss.°	flo	June 22
	Odontoglossum hastatum	flo.	July 29.
	Oncidium pap.° maj. (19 Apr)	flo.	May 17.
20	— " — triquetrum —	flo.	June 13.

May 17	Dendr. Dalhousianum	flo.	May 22
	Leptotes serrulata (in flo.	flo.	May 21.
	Dendrob. formos. 5 ⅓ (11"	abo.	~~~~
27	Epidendr. vitellin (Skin.	flo.	July 15
	Stanhopea tigrina (Sk.	gro	~~~~
	— " Rucker —	flo.	July 16.
June 3	Schomburgkia Tamica	leaf	~~~~
5	Stanhopea grandiflora	flo.	July 27.
16	Dendrobium Paxtoni —	gro.	~~~~
20	Oncid. papilio, major —	gro.	~~~~
22	Brassavola cordata	flo.	July 30
	Cattleya Trianei	abor.	~~~~
24	" — Lodigesii —	flo.	Aug. 27
27	Miltonia spectabilis —	flo.	Aug. 25
July 1	Brassavola 3 — ----	abort	~~~~
	Broughtonia sanguin.	abort	~~~~
13	Sobralia macrantha	flo.	July 25.
15	Stanhopea tigrina	gro.	~~~~
	Oncid. bifoliatum (regain	flo.	Aug. 8
	Laliopsis lilacina	flo.	Dec. 13
	Cattleya Forbesii	abort	~~~~
21	Hartwegia purpurea	abort	~~~~
	Lalia cinnabarina	abort	~~~~
27	Cattleya elegans	flo.	Oct. 18.
30	Oncidium crispum	flo.	Oct. 26
	Schomburgkia Tam.	leaf	~~~~
Aug. 3	Epidendr. vitellin. Sk.	abort	~~~~
	Lalia anceps 2 —	died	~~~~
	Conopsis paniculata	?	~~~~

Aug 5	Lalia Perrinii	flo.	Oct. 30
11	Brassavola cordata	flo.	Sept. 2
11	Cuiend. vexillinum 1	ab.	~~~~
	" rayanum	abo.	~~~~
	Lalia anceps 1.	abo.	~~~~
15	Lissa rosea 2	abo.	~~~~
27	Oncid. Cavendishianum	abo.	~~~~
Sept. 7	Leptotes bicolor —	flo.	Mar. 11
11	Cyrtopodium grande Sk.	flo.	Nov. 6.
15	Simatodis recta	flo.	Dec. 8
	Lalia albida	abo.	~~~~
19	Calanthe vestita	flo.	Dec. 5.
25	Dendrobium speciosum	abo.	~~~~
	Barkeria Skinneri	abo.	~~~~
28	Cuiendrum aurantiacum	died	~~~~
Oct. 1	Cattleya Forbesii —	flo.	Nov. 6.
5	Barkeria spectabilis	flo.	Feb. 11.
	Bonatea speciosa —	flo.	Jan. 5
	Cypripedium insigne	flo.	Nov. 4
	" venustum —	flo.	Oct. 14
6	Cattleya Skinneri	died	~~~~
14	Rodriguezia secunda	flo.	Nov. 6.
15	Epid. crassifolium	flo.	Dec. 5.
19	Schomburgkia (Tara)	abo.	~~~~
21	Brassia Lawrenceana	flo.	Nov. 9.
21	Catasetum tridentatum	flo	Jan. 13.
23	Huscellia Natalensis	flo.	Jan. 18.
	Sarcopodium Lobbii —	gro.	~~~~
Nov. 11	Oncidium altissimum	flo.	Mar. 15.
16	Dendrobium Kingianum	abo.	~~~~

Nov 22	Phaius Tankervilliæ	gro.	~~~~
27	Cattleya Amethystina	flo.	Apr. 11.
	Sophronitis grandiflo.	flo.	Jan. 8
Dec. 9	" cernua	abor.	~~~~
21	Dendrobium Dayanum	flo.	Feb. 6.
25	" Pierardii 2.	flo.	Feb. 17
26	" " 1	flo.	Feb. 25
	" nobile 1	gro.	~~~~
28	" chrysanthum		
30	Lycaste skinneri	abor.	~~~~
	Cattleya Mossiæ —	flo.	May 10

1866. Flowering.

Jan. 6	Calanthe vestitissima	flo. Mar. 28
Feb. 2	Dendrobium Farmeri	flo. Mar. 6
4	Chysis bractescens	gro. ~~~
	Catasetum tridentatum	flo. Mar. 31
8	Epidendrum odoratissimum	flo. Apr. 9
14	Aerides odoratum 2	flo. May 30
	Oncidium Cavendisianum	gro. ~~~
17	Lælia purpurata	flo. May 24
20	Cattleya crispa (Hort.)	abor. ~~~
23	~~Dendr. Steadii~~	
	Aerides affine rosea	flo. Apr. 21
26	Bletia Shepherdi	flo. Apr. 7
27	Dendrobium Dalhousianum	flo. Apr. 16
	" macropsis	flo. Apr. 6
	" pulchellum	gro. ~~~
Mar. 6	Cattleya sp. ?	abor. ~~~
	Brunsvigia sanguinea	flo. Mar. 26
	Cypripedium barbatum	flo. Apr. 19
28	Oncidium papilio (majus	flo. May 4
	Sobralia macrantha	flo. May 7
	Aerides Lobbii	diseased ~~~
	Maxillaria Harrisonia	flo. Apr. 11
	Cymbidium aloifolium	flo. Apr. 3
30	Lælia cinnabarina	abor. ~~~
Apr. 2	Epidendrum cochleatum	flo. Apr. 20
	Dendrobium lasioglossum	flo. Apr. 29
	" aggregatum	flo. Apr. 25

1866.

Apr. 5	Dendrobium moschatum	flo.	May 9.
May 7	Cyrtochilum maculat.	abor.	~~~~
10	Miltonia spectabilis	flo.	Aug. 16
17	Stanhopea Ruckeri	flo.	July 18.
21	Oncidium triquetrum	abor.	~~~~
	Epidend. vitellinum 1.	abor.	~~~~
	Do — Do — 2.	flo.	June 25
	Cattleya Forbesi	flo.	June 17.
25	Odontoglossum Insleayi	flo.	July 21.
	Lycaste aromatica (bis)	flo.	May 25
June 7	Cattleya Loddigesii	flo.	Sept. 20
	Disa grandiflora —	flo.	July 21.
17	Brasavola nodosa	flo.	July 14
22	Govenia superba	flo.	July 14.
25	Stanhopea oculata V.	flo.	Aug. 21.
29	Gongora maculata fusca	flo.	Aug. 9
July 1	Oncidium Cavendishianum	flo.	Sept. 3.
10	Coelogyne speciosa —	flo.	Aug. 11.
15	Lalia cinnabarina (bis)		
17	Cattleya Trianai	abor	~~~~
21	Epidendrum fragrans —	abor.	~~~~
25	Lycaste Skinneri —	flo.	Oct. 24
	Calanthe vestita —	flo.	Oct. 6
27	Cymbidium aloifolium	flo.	Sept. 11
	Hartwegia purpurea	abor.	~~~~
	Cattleya Forbesi bis	flo.	Oct. 6
30	Laliopsis lilacina	abort	~~~~
Aug 2	Oncidium barbatum —	flo.	Oct. 3
5	Sophronitis coccinea	flo.	Sept. 5.

Aug 5	Cattleya labiata	flo.	Nov. 24
6	Lalia Perrinii —	flo.	Nov. 3.
7	Cattleya dolandia	abo.	~~~~
12	Trichopilia tortilis —	flo.	Aug. 24
17	Sophronitis grandiflora —	flo.	Oct. 2
22	Oncidium flexuosum	gro	~~~~
25	Lalia anceps (Low.) —	flo.	Jan. 22
26	Leptotes bicolor	flo.	Feb. 15.
27	Dendrob. moniliforme	gro.	~~~~
	Limatodis rosea —	flo.	Nov. 29
28	Rodriguezia secunda —	flo.	Sept. 20.
Sept. 3.	Lalia albida —	flo.	Dec. 2
	Cattleya elegans —	flo.	Jan. 3.
	— " — Loddigesii (bis)	flo.	Nov. 1.
5	Stanhopea oculat. V. (bis)	flo.	Oct. 8.
	Dysopetalum crinitum	flo.	Oct. 2.
	Schomburgkia (Para) —	leaf	~~~~
7	Gongora mac. fusca (bis)	flo.	Oct. 24.
9	Oncidium Lawrenceanum	flo.	Feb. 11.
11	Cattleya Forbesi (ter.) —	flo.	Oct. 11.
	Barkeria spectabilis —	abor.	~~~~
17	Dendrobium bicolor —	flo.	Oct. 9.
20	Leptotes tenuis	flo.	May 16.
22	Oncidium ?.	gro.	~~~~
30	Cypripedium venustum —	flo.	Nov. 10

1866.

Oct. 5	Miltonia candida (terminal	~~~	~~~
8	Oncidium papilio —	flo.	May 6.
13	Phajus maculatus —	gro.	~~~
15	Brasavola grandiflora —	flo.	Jan. 30
23	Epidendr. atropurpureum	flo.	June 10
24	Epidendr. macrochilum	abor.	~~~
	Phajus Tankervillia —	gro.	~~~
25	Dendrobium bicolor [illegible]	flo.	Nov. 20.
29	Cattleya Mossiæ —	abor	~~~
	Bonatea speciosa —	flo.	Mar 20
Nov. 5	Cattleya Leopoldi	abor.	~~~
8	Rodriguezia secunda	flo.	Dec. 1.
	Catia Bauerana —	flo.	Apr. 11.
	Catasetum tridentatum	flo.	Jan. 14.
	Schomburgkia (Para) —	abor.	~~~
9	Oncidium altissimum	flo.	Mar 7.
13	Sophronitis grandiflora —	flo.	Dec. 11.
26	Laelia purpurata	flo.	June 14.
27	Vanda gigantea —	flo.	Jan. 30
Dec. 4	Bletia hyacinthina	flo.	Feb. 11.
12	Ansellia Natalensis —	flo.	Feb. 11.
	Epidendr. crassifolium —	flo.	Feb. 14
17	Stanhopea tigrina, Pr.	abort.	~~~
24	Cymbidium aloifolium	flo.	Jan. 1.
	Brasavola [illegible] (Onc. sub.)	flo.	Feb. 17
26	Cypripedium barbatum	flo.	Mar. 24
27	Cattleya crispa [illegible]		
	Dendrobium nobile [illegible]	flo.	Mar. 7.
	Stanhopea 14. (eburnea	flo.	Feb. 21

1865 Flowering.

Jan 9	Calanthe vestita alba	flo.	Apr. 15.
14	Dendrobium Pierardii var.	flo.	Mr. 7.
18	Oncidium cheirophorum	flo.	June 1.
19	Maxillaria Brocklehursti	gro.	~~~~~
28	Bletia Sieberi	gro.	~~~~~
Feb 6	Oncidium varicosum	flo.	Apr. 1.
10	Chysis bractescens	flo.	Feb. 27.
1	Dendrobium Pierardii 1.	flo.	Mr. 15
	" Farmeri 2.	flo.	Mr. 20
10	" Cypsanum	flo.	Apr. 11
12	Oncidium citrinum 2.	flo.	Jun. 6.
12	Dendrobium aggregatum	flo.	Mr. 27.
21	" Dalhousianum	flo.	Apr. 11.
	Lycaste Skinneri (bis)	gro.	~~~~
11	Aerides odoratum 1.	flo.	May 12
	Stelis longifolia	flo.	Mar. 5
2	Lycaste Harrisonii	flo.	May 7
24	Dendrobium nobile 1	gro.	~~~~~
Mr. 1	Cattleya amethystina	flo.	May 5.
2	" " 7	flo.	
	Dendrobium densum	flo.	Apr. 1.
5	" fertile	flo.	Apr. 25
17	Aerides crassifolium	flo.	May 8.
21	Dendrobium secundum	flo.	May 10
	Pleurothallis ophiocephala	withered	~~~
	Thelympsis randiflora 1	flo.	May 3
Apr. 1	Dendrobium Paxtoni	gro.	~~~~~
	Aerides lawrence	flo.	May 24.
4	Oncidium excavatum	flo.	May 16
11	Lælia cinnabarina	flo.	May 22

Apr. 30	Gongora Trailii	flo. June 1.
	Cattleya Forbesii	flo. June 29.
27	Sobralia macrantha	flo. June 10.
	Cattleya crispa Sl.	flo. July 29.
	Lycaste aromatica	flo. June 1.
	Odontoglossum Insleayi	flo. June 24.
May 10	Miltonia spectabilis	flo. July 15
14	Epidendrum vitellinum	flo. June 27
	Dendrob. aduncum (bis.)	flo. June 5.
21	Disa grandiflora	flo. July 6
	Barkeria Skinneri	abo. ~~~~
22	Saccolabium ceratocnemum	flo. Mar. 1.
	Cattleya citrina (Jan. 7th)	flo. May 21.
28	Phajus maculatus	gro. ~~~~
[illegible]	Stanhopea Ruckeri	flo. July 12
June 1	Gongora maculata	flo. [illegible]
5	Cattleya labiata	abor. ~~~~
	Lycaste cruenta	
23	Cattleya Dormanii	flo. Aug. 30
	" superba	flo. Aug. 6
28	Epidendrum fragrans	
	Brassia Lanceana	flo. July 18.
29	Calogyne cuneata	flo. July 18.
29	Brassavola grandiflora	abo. ~~~~
30	Dendrobium Pierardii	
July 1	Brassavola nodosa	flo. June 31.
15	Sacia Perrinii	flo. Oct. 15.
	Cattleya Trianei	flo. [illegible]
15	Phaiocalanthe varia	flo. Oct. 20.
21	Cattleya maxima (Burkhum.)	[illegible]
	" Atlantica	flo. [illegible]
22	Stanhopea conchata	flo. Aug. 29
25	Dendrob. [illegible]	gro. ~~~~

July 24	Barkeria [illegible]	abo. ~~~~
25	Lelia [illegible]	flo. [illegible]
	Trichotosia [illegible]	flo. Aug. 14
31	Cyrtochilum [illegible]	gro. ~~~~
29	Oncidium testis	flo. Sep. 29
	Leptotes bicolor	flo. Mr. 21
[illegible]	Oncidium Cavendishianum	flo. Oct. 13
	Sacia [illegible]	flo. July 30
30	Pleione maculata	flo. Oct. 3
31	Oncidium barbatum	flo. Oct. 7.
Aug. 1	Odontoglossum [illegible]	flo. Oct. 7.
2	Cattleya [illegible]	abo. ~~~~
4	Gongora Trailii	flo. Sep. 1
[illegible]	Oncidium crispum	flo. Dec. 17.
	Hartwegia purpurea	flo. [illegible]
	Cattleya labiata	
8	" maxima (Linden)	
	Zygopetalum Mackayi	gro. ~~~~
	Stanhopea tigrina	flo. Nov. 26
12	Odontoglossum grande Sl.	flo. Sep. 28.
15	Sacia [illegible]	flo. Nov. 17.
17	Dendrobium formosum gig.	flo. Sep. 9
19	Cypripedium venustum	flo. Nov. 11
18	Cattleya Mossiae S.S.	
20	Dendr. chrysanthum L.	flo. Oct. 22
	Cattleya Skinneri	abo. ~~~~
27	Dendrobium [illegible]	flo. Sep. 15
	Stanhopea conchata bis	flo. Oct. 22
29	Sacia [illegible]	flo. Feb. 9
	Phaius tankervilliae	flo. Feb. 5.
	Barkeria Skinneri	flo. Feb. 6
[illegible]	Odontoglossum longifolium	flo. Aug. 25.

Sept 2 Dendrobium gracilicaule — flo. Nov. 24
3 Sarcochilus Hillii
Lelia cinnabarina — flo. [illegible]
Oncidium leucosum — gro. [illegible]
Cattleya 225
Cirrhopetalum Medusae — gro. [illegible]
7 Cattleya 1575
9 Dendrobium chrysanthum
11 Epidendrum Stamagei — gro. [illegible]
15 Lepanthes longiscapa — flo. [illegible]
19 Cattleya Leopoldii
21 Oncidium [illegible]
Dendrobium nobile — bis.
22 Rodriguezia secunda — flo. Oct. 17
24 Schomburgkia Tibicinis — flo. [illegible]
Oncidium Kleinii
Sophronitis cernua — flo. Oct. 17
26 Odontoglossum crispum
Oct. 7 Oncidium papilio — flo. [illegible]
11 Sophronitis cernua — flo. Nov. 4
12 Brassavola Digbyana — flo. Dec. 9.
31 Odontoglossum [illegible] — flo. [illegible]
Oct. 4 Oncidium Lanceanum — flo. [illegible]
7 Cattleya Loddigesii
" Alba
" 15 [illegible] — flo. [illegible]
Lycaste Skinneri
Bonatea speciosa — flo. [illegible]
23 Cypripedium insigne — flo. [illegible]
31 Dendrobium heterocarpum — flo. Dec. 31.
Nov. 1 Cypripedium Stonei — flo. Jan. 20
Cymbidium Tracyanum
Cattleya amethystoglossa

Flat open
page

1867.

Nov 7	Lælia acuminata	
	Oncidium altissimum	
	Dendr. Bulger 8.	
11	Cypripedium barbatum	flo. [illegible]
	Lælia purpurata	flo. June 7.
	Santicaria Steelii —	flo. Jan. 22.
	Dendr. Pierardii 2 —	flo. Mch. 14.
16	Oncidium triquetrum	flo. Jan. 22
26	Brassia maculata	
Dec. 6	Phajus maculatus	
9	Cattleya crispa 2 —	
12	Oncidium Sprucei	
19	Odontoglossum (from 4.	
27	Cattleya elegans	flo. [illegible]
28	" T	flo. [illegible]
	" Leopoldi —	flo. Apr. 5
31	" crispa 1 —	flo. July 21
	Cymbidium aloifolium	flo. Mar. 11.
	Epidendrum crassifolium	flo. Mr. 18.

May 5	Calogyne speciosa	flo.	May 7
	Stanhopea oculata	flo.	June 14
	"	flo.	June 22
	" tigrina	flo.	May 29
	Lycaste gravidissima	flo.	June 15
12	Cattleya Walkeriana	flo.	May 26
26	Oncidium [illegible]		
26	Stanhopea [illegible]		
June 5	Epidendrum [illegible]		
8	Oncidium [illegible]	flo.	July 20.
	Cattleya [illegible]		
10	Angraecum [illegible]	flo.	June 17
July 17	[illegible]		
	Cattleya [illegible]		
	" elegans		
	Lycaste [illegible]		
18	Odontogl. [illegible]		
	"		
21	Cattleya [illegible]		
	Odontogl. [illegible]		

1868. Flowering.

Jan. 18	Dendrob. eburneum —	flo.	Mr. 18.
20	Chysis bractescens —	flo.	Feb. 21
	Dendrob. Dayanum —	flo.	Apr. 7
	" tortile ros.		
22	— " — nobile —	flo.	Mr. 14
28	— " — chrysotoxum	flo.	Mr. 22
	Aerides odoratum l. —	flo.	My 14
29	Cattleya citrina —	flo.	Ap. 28.
Feb. 1	Vanda tricolor l.		
	Epidend. odoratissimum	flo.	Ap. 16
5	Dendrobium Farmeri —	flo.	Mr. 10
	" macrophyllum —	flo.	Mr. 25
13	" " aggregatum l —	flo.	Mr. 17
14	" " majus l. —	flo.	Mr. 10
	Saccolabium Gaji		
	Cacyga crinita l	flo	[illegible]
15	[illegible] l	flo.	My 29
19	[illegible]	flo.	Mr. 22
	[illegible]	flo.	[illegible]
	[illegible] Harrisonia	flo.	My 14
2[illegible]	[illegible]		
	[illegible]	flo.	My 3.
[illegible]	[illegible]	flo.	Mr. 11
25	[illegible]	flo.	Ap. 22.
	[illegible]	flo.	Ap. 14
26	Cyrtopodium Andersoni	flo.	Apr. 5
Mar. 3	Saccolabium giganteum —	flo.	My 9

Mar. 1 Dendrobium [illegible]

11 Aerides Lobbii — flo. June 5.

12 Dendrob. formos. gigant. — flo. May 7

Calanthe veratrifolia — flo. June 2

Cattleya amethystina — flo. Ap. 30

[illegible] flo. May 7

[illegible]

15 [illegible] flo. May 8

[illegible]

Cypripedium [illegible]

16 [illegible] flo. Ap. 24

17 Cypripedium barbatum

[illegible] flo. May 13

Ap. [illegible]

[illegible]

Bletia [illegible]

Barkeria [illegible] flo. May 14

7 Cattleya [illegible] flo. Ap. 21.

8 [illegible] flo. July 20

[illegible] flo. May 21

[illegible]

Oncidium [illegible] flo. June 2

21 Dendrob. albiflorum flo. May 20

Odontogl. Insleayi 1.

30 Miltonia spectabilis — flo. July 21

May 2 [illegible] flo. June 17.

Epidendr. cinnabarinum flo. May 30

4 Barkeria "spectabilis" flo. May 27

Cattleya superba flo. June 17

RECORDS.

Advertised by Wallis in Jour. Hort. May 1866. Cobham. Surry.	When flowered	Number of Bulbs	Number of leaves	Price	If in good health	Bought by
Zygopetalum crinitum			—	7/6		P.H.G.
Cattleya Mossiæ	186	5	—	10/-		
Saccolabium guttatum 1.	Sold	—				
Ditto. No 2		—		£5		
Ditto. No 3		—		£6		
Lælia majalis		3	—	5/-		P.H.G.
Vanda tessellata	sold	—				
Phalænopsis amabilis	flowering	—		£3		

Londrobium mochatum ♀
impregn. by
Londr. Galbreuseianum ♂
May 3. 1872.

[illegible]

[illegible]

[illegible]

other specimens.

Sprinkled [illegible] of the [illegible], of various sizes.

April 27. 1874.

Specimens 15 of [illegible] [illegible] 25 [illegible] of the [illegible] [illegible] 40 [illegible] transferred to [illegible].

In the [illegible] freely, making [illegible]

Cattleya intermedia ♀ impr. by
Cattleya citrina ♂

May 1. 1871. ripe Feb. 17. 1872.

The pod just like that of 19 (Catt. int. + Br. sang.) & dehiscent medially, remaining united at the ends. Seeds almost whole, fertile, [illegible] – in appearance as 19, or 21; many [illegible] on being wetted: I believe I might say "all"; but in many cases it was too short to exclude pure the lecanie.

Donax. Picardi ♀ [illegible] by
Pond. macrophy[illegible] Lam ♂

March 13. 1871. Stipe [illegible] 1872.

Formed pod (a) 2½ inches long, 15 inch wide in the thickest part, about one fifth from the tips. Deflexed after shaping, from dull green to reddish; [illegible] fleshy, [illegible] [illegible].

Lids under microscope, all fibre; very small, rounded spindle shaped (b, c): embryo plump, [illegible] green: no [illegible] apparent on contact with water.

Sewed in wad of moss, charcoal, & fragments of pod, in jar under glass.

c) c

Lycoale Shinnerii
self impreg. 8th March 1871.

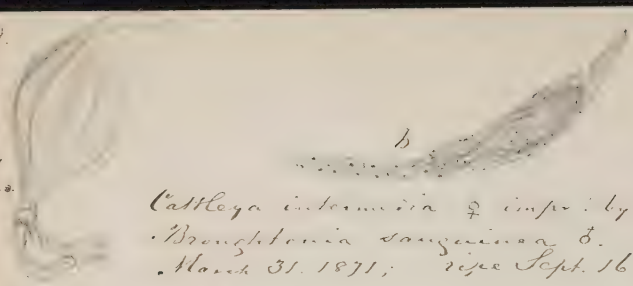
Frame of a massive flicked over the head, wh. detached 4th Feb. 1872, bearing a mass of very minute seeds, like dust. Well exempt all 1 per cent apparently fertile, (a, b,) coarsely meshed: entirely unifoliated: no suspensor protrusible when wetted. (c) an empty lenticle.

We sowed on the moistened earth ye 4 Palm trees, & on pad in a pot.

Salia arcuata
imp. by
Salia arbicula.
Jan 20. 1871.

June 22. 1871. Fruit detached. Seed dried up, but still slightly plump. About 15 per cent. fertile. Average dimensions 85 x 20 - 5000 th. Embryo 50 x 20. Cotyledons not very conspicuous, embryo white, fine, very transparent, light green. Suspensor, but indeed to one side of the base of embryo, on contact with water.

Seed immediately, (as Salia cinnabarina).



Cattleya intermedia ♀ impr. by
Brongniartania sanguinea ♂.
March 31. 1871; repe Sept. 16. 1871.

The Pod about 2½ inches long, & 1 inch in diam. (a) became yellow, & finally rust brown at the sutures. Seed very fine minute. About 15 or 20 per cent. fertile; ish. on contact with water shot out the suspensor (b); in a few cases the contents was protruded by the rupture of the side of the tunic, & remained connected with the interior by the suspensor maintaining its hold. The protruded suspr. was exactly as in 11/2.

Epid. cornuum ♂
Epid. Skinneri ♀ a.
imp. 20. Jan. 1871. Ripe July 25. '71

Exam.d Sept. 16. 1871; Two wks after sowing. Many seeds plump, & yell.-green; some with the suspensor protruded, while cells were not sensibly nucleate. Network of testa well expanded. (fig. a.) Form a very elegant spindle. Embryo not defined, a translucent spot, seen.

17

Calanthe Chadleyana ?
impr. by
Calanthe vestita (redeye)
Jan. 20. 1871. Dehisced Apr. 14. 1871.

Seed examined when scattered; agreeing closely with C. vestita impr. by Lim. 200. (p. 12), except that embryo is much smaller in proportion, & reticulation is more quadrangular (normally, not invariably) See a.
About 5 per cent contain green embryo.
We allowed the pod to scatter the seed on a surface of small crocks, peat & sphagnum, quite moist, & kept under a bell glass, in dark part of house in Ind.n House.

L
TORQUAY
FE 27
71
60

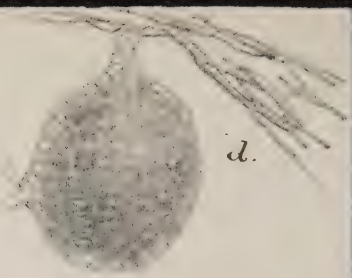
	1862	1863	1864
Stanhopea 13 grandiflr.	Dec 4	Mr 1	Ap. 15
14.	Dec 20	Mr 1	Dec 25
Vanda teres		Fb. 28	ever
Dysopetalum Clarkii		Mr. 25	Dec 16
Cyrtochilum maculat.			Ap 20
Oncidium sphacelatum		My 12	My 10
Stanhopea venusta		Jun 19	May
" oculata V.			Dec 25
Trichopilia tortilis 1		My 20	Dec 25
Broughtonia sang. (small)		Jun 19	—
" large		Jun 12	Mr 26
Oncid. Lanceanum (small)		My 31	—
" large			May
Laliopsis lilacina		Jun 12	Mr 15
Brassavola nodosa 1		Jun 19	Ap 15
" cordata 2		Jun 10	Ap 15
3		Jun 1	
" Bletia Shepherdii		Jun 3	Ap 29
Epidendrum fragrans		Jun 19	Mr 26
Ionopsis tenera		Jun 19	
Schomburgkia tibicinis J.		My 18	Ap 13
Oncidium Carthaginense		My 16	Mr 30
Gongora maculata		My 15	ever
Epidendrum crassifolium			Jan 22
Brassavola Digbyana		Jy 13	May
Stanhopea tigrina Jr.		Jun 14	May
Dendrob. Pierardii Jr.		My 15	Ap 21
" Paxtoni Jr.			May
Cattleya amethystina		Sep. 20	Ap. 19
Septates bicolor			Ap. 26
Limatodes rosea			Jan 21
Dendrobium Farmeri		Sep. 1	Ap. 30
Oncidium papilio major			Dec 21
Oncidium crispum			Dec 25
Vanda gigantea 1		Oct 7	ever
" " 2		Oct. 7	ever
Disa grandiflora		Mr 15	ever

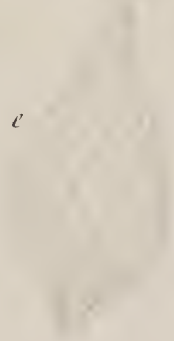
	1862	1863	1864.
Dendrob. pulchell. 1		over	over
" - Carter		over	
speciosum		Jun 4	Mr 16
Epidend. aurantiac.		Jun. 1	Sp. 10
macrochilum	My 13	Ja.y 31	Nov 24
♀		Ap. 30	Mr 25
λ		My 12	
— 17	Dec. 20		
— 18 } nocturn.	Nov 14		My 17
19 }	Nov 14		
Fernandezia 45 —	Nov 14		
46	Dec. 4		
Gongora 29 —	Nov. 14		Mr 27
Gongora discolor	Jun 15	Mr 9	—
Jonopsis paniculata		Ap. 10	Dec 14
Lælia albida	Sep. 11	Ap. 30	My 17
Perrinii		Mr 25	Mr 31
purpurata		My 25	Fb. 25
1 —		Mr 14	Mr 31
21 E. cochl.?		Jun 9	Jn 14
22 E. odoratiss.		Jan.y 10	Fb 25
Lycaste Skinneri 1		Jan.y 9	Mr 1.
— " — 2		Fb. 14	Mr 17
Maxillaria Harrisonia	My 7	Sp. 5	Sp. 21
Miltonia spectabilis		Sp. 27	Sp. 16
Clowesi	My 22	Jan.y 31	My 3
- 28	Nov. 14		Nov 18
30	Nov 14		Dec 25
31	Nov 14		} Jan 1.
32 —	Nov. 14		
33		Mr 5	
34		Ap. 5	My 17

	1862	1863	1864.
Mormodes 5 —	Nov 14		
6 —	Nov 14		
7 —		Mr 14	
8	Dec 4		
9 —		Mr. 14	
10 — —	Dec 20		
11		Mr 14	
12 —	Dec 4		
Odontoglossum grande	Ap. 19	Mr 11	May
Oncidium altissim.		Mr. 21	Sp. 7
ampliatum		Ap. 30	Sep. 1
flexuosum		Mr 2	My 11
Lanceanum		Mr 13	Mr 30
papilio	Sp. 6	Fb. 27	Dec. 8
γ —	Jun 11	Mr 30	Sp. 13
ζ —		Feb. 5	Feb. 25
ε —		Jan.y 24	Mr 13
Octomeria —		—	
Phajus albus		Mr. 28	Fb. 22
Tankervillea		Fb. 20	Mr 31
Wallichii		Ja.n 31	Mr. 25
Peristeria elata —		Dec 29	Mr. 6
Pleurothallis 37 — —	Dec 20		
(Notylia) 38 — —		Mr 14	
39 —		Mr 14	
40 — —	Dec 20		
41 —		Mr 14	
42 — —		Feb. 4	
Rodriguezia secunda		Fb. 3	Apr 10
Sophronitis grandifl.		June 1	
Lælia) θ — —		Ap. 2	My 3
Stanhopea Devoniensis		June 9	
grandiflora	Jun 11	Mr 7	Mr. 23
insignis	Jun 11.	Ap 11	My 6
oculata	My 15	My 12	My 24
reptina	Sp. 12	My 3	Mr 15
" — —	Jun 11	Mr 3	

First growth.

	1862.	1863.	1864.
Aerides odoratum	Jun 11	Mar. 21	Feb. 4
Calanthe tenuifolia	Jun 11	Apr. 2	July 13
vestita		Feb. 27	Mr 25
Cattleya crispa 1.	My 15	Mr. 10	June
" 2		Sp. 13	
citrina	Sep. 5	Mr. 13	Dec 25
Forbesii	Ap. 25	Nov. 16	Sep 30
Porrigesii	Jy. 14	Mr 11	Mr 30
Mossiae 1	My 15	Apr. 17	My 17
" 2		Apr. 5	Sp. 27
" sph.		Oct. 4	My 17
α	Jun. 24	May 25	Ap. 5
Catasetum 1			
2	Nov 14		
3	Nov 14		
4	Jan. 26		
Coelogyne speciosa	Ap. 27	Ap. 4	ever
Cymbidium aloifol.		Mr. 6	
giganteum		Mr. 6	Jan 22
Cypripedium variatum		ever	ever
" (Cart.)		Mr 14	ever
insigne	Jun 1	(ever)	ever
venustum	My 30	ever.	ever
Dendrob. chrysanthum		Sp. 19	Sp. 19
densiflorum	My 15	Fe. 17	My 17.
moschat. 1	My 20	Mr. 17	Apr. 15
" 2	Jun 11	Mr. 30	
" 3			
nobile 1	My 25	Nov 27	Nov 25
" 2		Feb. 14	Dec. 25
" grandif.		Ap. 2	Mr. 31.
Pierardi		Mr 13	May 17





Lælia cinnabarina

6 & 7, Charing Cross, London, S.W.

March 4th 1871

M. H. Gope Esqr
Torquay

Dear Sir

I have made every inquiry in London for the map of St Francis Canada and although the map is known I cannot ascertain the price.

I will therefore if you wish it write out to my Agent in New York for the particulars

Awaiting reply
I remain
Obediently Yours
Edward Stanford
per G.B.

3, Bartholomew Lane
London, E.C. April 6 1863

Dear Sir

We enclose our cheque for £32.16.3 the amount of Jonathan's Quarter's dividend as usual; please acknowledge receipt

Yours obliged Jonathan Ellis

Ellis & Nelson

from wh-pil Germ.? say in 5000 lbs 1 year ind.

~~Dagenal~~ ~~Germ~~ from Original Packet

long.	thick
75	25
80	25
75	24
60	25
70	23
77	31

long.	thick
80	11
80	16
	14
	13
	15
	20 humpest.
	19
	16

hetmosp under aqu.

70	29
74	24
81	25
82	25
65	24
80	27
84	23
80	30
85	23
85	27
85	26

17 | 436 | 26
34
96
102

Ex.d Mar 28. | 63

Seed of Dominy; Cattleya.

Epidendrum crassifolium.

One pod formed by spontaneous impregnation about middle of April 1865: form obovate, 1 inch long; colour light green persistent.

Dehiscence 23rd June, same year, scattering a copious dust, true white, of wh. the individual grains were quite visible to the naked eye, being 1/8 inch in length, by very far the largest seeds I have seen.

Dim. 500 × 80 (Embr. 63 × 50 (5000 ht.) an average fertile seed. About 60 per cent fertile. Form an elegant shuttle, the embryo prominent. Component cells very distinct short, forming an elegant network of which most of the meshes are long hexagons.

Embryo beautifully clear & well defined; a round oval body, pellucid green, running off into a colourless neck (radicle?), which is lost to view in the neck of the tunica testa. Testa quite colourless.

Contact with water did not cause the protrusion of the radicle, doubtless, from the great length of the neck of the tunica. The radicle however presently became visible to a much greater length than before, within the neck.

Epidendrum aurantiacum.
closed flowers var.
self impregnated.
artificially
25. Mar. 63.

Dehisced Aug. 4. 1864. Cut off the 2 pods laid in paper till 6th Sept. when I exam. them. Seed buff yellow, abundant. Abt. 70 p. cent. fertile.

Form a slender spindle. Average dimensions 83 × 19. Embryo, very uniformly 40 (5000th) Opaque when dry, but on contact of water became pellucid yellow-green, the colour of the embryo. Many immediately protruded the radicle.

Ibid. The open fls. var. (Low teste)
self impregnated naturally. Spring 1863.
Dehisced, I cut off Aug. 4. 1864. Exam.? Sept 6.

In no respect distinguishable from the preceding, except that a less proportion fertile; not much more than 50 p. cent. Radicle instantly protruded from most.

Cymbidium giganteum

Self-impregnated artificially.

Oct. 17. 1863.

This quickly formed a large pod, which hung on the plant for more than a year, the first sign of decay occurring early Jan. 23. 1865, when I cut it. It was just 5 inches long, by 7/8 ths of an inch wide at the widest part, about two-thirds from the base. Its section is rondo-sexangular, with six thickened bands at the angles, the intersutural ones much more prominent than the sutural. Colour a fine yellow orange; surface perfectly glabrous, though somewhat rough, the thickened bands polished.

Seed copious, of a delicate pale yellow hue, dust-like. Average dimensions 183 × 30 (5000) form that of a regular spindle, much produced at each extremity, the netting of the testa for the most part twisted; its cells few & large, making it very transparent after soaking with water, & thus revealing the embryo in almost every seed, with a clearness which I never saw approached before. The embryo averages 176 × 24 : 5000th, in one instance it had on the contact of water burst through the side of

the tunic, it may seem to, except that the two cellular radicles still remained attached to its interior. From a transparency of the tunic, however, the form & structure of the embryo could be made out in some of other examples nearly as well as in this. It is in each body, contained in a mulberry-like apparently solid opaque, or translucent dense tissue, precisely at one end into a thick radicle of large clear cells set in double series, which seemed (in some instances at least, if I was not deceived) to be turned back upon itself, as shown in the above figure. It does not in any instance protrude from the end of the tunic in immersion.

The size of the seed, with cleaned & the great bulk of the embryo, must this away in merely observation.

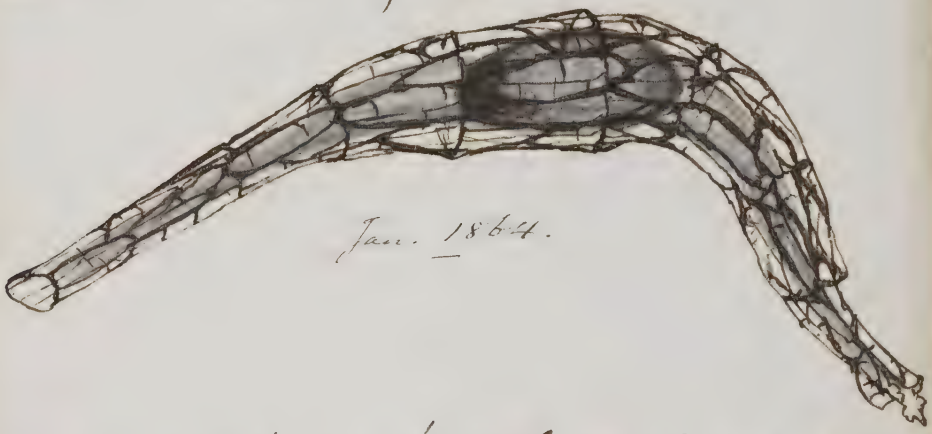
4

Cypripe. venustum

length	breadth
240	10
280	30
240	35
260	40

Cambyo

length	breadth
45	15
36	22
35	25
38	25
30	20



Jan. 1864.

about 75 p cent fertile. Radicle did not increase on application of water.*
Shape quite distinguishable with naked eye.
*After about 12 hours contact with water, the radicle was found to be minutely projecting from seed.

MARINE
NATURAL HISTORY CLASS.

In the summer of 1855, I met, at Ilfracombe on the coast of North Devon, a small party of ladies and gentlemen, who formed themselves into a Class for the study of Marine Natural History. There was much to be done in the way of collecting, much to be learned in the way of study. Not a few species of interest, and some rarities, fell under our notice, scattered as we were over the rocks, and peeping into the pools, almost every day for a month. Then the prizes were to be brought home, and kept in little Aquariums for the study of their habits; their beauties to be investigated by the pocket-lens, and the minuter kinds to be examined under the microscope. An hour or two was spent on the shore every day on which the tide and the weather were suitable; and, when otherwise, the occupation was varied by an indoor's lesson, on the identification of the animals obtained, the specimens themselves affording illustrations. Thus the two great desiderata of young naturalists were attained simultaneously; they learned at the same time *how to collect*, and *how to determine the names* and the zoological relations of the specimens when found.

A little also was effected in the way of dredging the sea-bottom and in surface-fishing for Medusæ, &c.; but our chief attention was directed to shore-collecting. Altogether, the experiment was found so agreeable that I propose to repeat it by forming a similar party every year, if spared, at some suitable part of the coast.

Such ladies or gentlemen as may wish to join the Class should give in their names to me, early in the summer; and any preliminary inquiries about plans, terms, &c. shall meet the requisite attention.

P. H. GOSSE.

58, Huntingdon Street,
Islington, London.
March, 1856.

Cypripedium insigne
introduced by
Cypripedium barbatum.
May 4th 1864.

Released Jan. 11. 1865. Pod [illegible] 2 inches long [illegible] lines, [illegible], triangular, (the intersutural sides scarcely protuberant) downy, dark red-brown when ripe, for several months before. A large persistent bract sheathed the base of the pod.

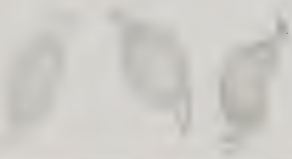
Seed only moderately copious, of a drab or light buff hue, leaky rather (like fine sand) than dust. Average dimensions 66 × 23 (5000th), about 50 per cent contain what appears an embryo which varies much in size, sometimes, with [illegible] as a little [illegible] of the lunule; in the most part very shrunk, [illegible]; but I believe this was in every case only a globule of air inclosed by the water entering at each end of the lunule; I think the whole are infertile. No protrusion of radicle or cotyledons.

The dissimilarity in form & size of this seed from those of C. barbatum & C. [illegible] & their consimilarity in other particulars, as drawn [illegible]

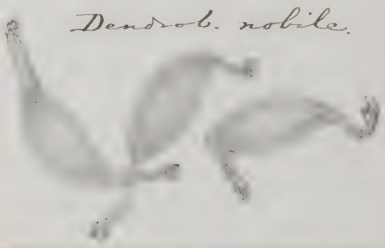
Seed. Aerides odoratum.
Cultn 1st Feb. 6. 1864.

Quantity copious.
Full 95 p. cent fertile.
Average dim. ~~34~~ 37 × 12½. embryo 24 – (4250th
Form short plump spindle; coat not visibly wrinkled, but showing few longitd. fibres only.
Colour rich transparent amber.
Embryo filling sac in width, & abt. ⅔rds in length
Contact with water produces no vis. change.

Aerides od.



Dendrob. nobile.



Dendrob. nobile.
Impregn.d by me March 20th 1863. 2 fruit.
Both dehisced Mar. 22. 1864, discharging abundant golden-yell. dust like seed.
Full 95 p cent fertile.
Average dimension 90 × 18 – embr. 35 – 5000th
Form spindle, strongly marked, abruptly passing into long slender empty ends
Embryos sub-opaque, when dry; but easily cuticle, pregnant, & then pellucid – leaving only mark on dry
Contact with water instantly expands the loose envelope, so that the network of cells becomes conspicuous, & the embryo becomes sub-pellucid, but no radicle protrudes

Land Surveying	4	do.	do.
The Piano	8	do	do.
Laundress	3	do.	do.

Provision is also made for instruction in Hindostance and Persian.

Pupils are thoroughly prepared in every branch necessary to those who are intended for Civil Engineers.

Vacations. — Six weeks at Midsummer and at Christmas, a charge of eight guineas is made if a pupil remain during either.

It is requested that each pupil be provided with Six Towels, four Table Napkins, two Silver forks, a Dessert and Tea Spoon.

A quarter's notice is required prior to the removal of a pupil.

Mr. Edgelow begs to add that he desires to base his principles of training and teaching on the Word of God.

Laliopsis lilacina
impr.d by
Cattleya Mossiæ.
May 19. 1864.

It quickly formed an ovate pod about 1¼ lines in diam.r & 8 lines in length, running off abruptly into slender extremities, the basal one more the terminal one less, than its own length. It dehisced Aug. 6, 1864; when I cut it, laid it in folded paper till Sept. 6, when I exam.d it. Seed copious, fine, yellowish white. Under microscope well-shaped, colourless, absolutely & universally empty: average dimensions 90 × 17 (5000

Laliopsis lilacina
impr.d by
Broughtonia sanguinea
May 30.th 1864.

Pod of similar size & shape to the preceding. I cut it the same day, but before it was quite ripe; so the seed did not separate, but remained coherent when dry. Exam.d Sept. 6. 1864. 20 per cent fertile. Form along regular spindle; average dim.ns 104 × 18. Embryo 50 (5000 th

On content of water many protruded radicles which had a curious appearance, as if studded with knots of granular matter; arising, as I think from the cells having yellowish nuclei.

7

Cypripedium barbatum
impregnated by
Cypripedium insigne.
May 4th 1864.

Dehisced Dec. 22d 1864. 1 ad 1½ inch long 3 lines wide, sub-aqui-hexagonal, downy, dark red-brown with lighter sutures, ribbed like. Seed copious, dust like, dark brown, lineate elongate, 168 × 23 (5000ths) cones ~~discern~~ discern no embryo in any. No protrusion of radicle on contact with water.

Dendr. nobile. See note of fig. Mar. 20/64. Oct. 30. This seed is certainly germinating. The embryo is greatly swollen, of a yellowish green [illegible] structure in some specimens. The distension of the tunic brings out its reticulation with beautiful distinctness. The atom fig. represents an average specimen, drawn on same scale as before. Dimensions 76 × 40; emb. 52 (5000

10

1. 2.

1. Phalanopsis amabilis. Cantor Feb. 6/64

Sufficiently capious

Dim.ns 54 x 9 (4250 ⊞

Form long irregular cylind. abruptly pointed at one end; truncate & open at other. rudely grooved & knotted, much like limb of rough barked tree. Netted with long meshes, sub-opake.

No sign of embryo in any. Put some in water under compressorium; air was expressed; tunic was made more transparent, but not the least sign of embryo in any solid contents. Tunic quite colourless.

2. Phajus albus. One seed-pod spontaneously formed Sept. 1863. Dehisced May 2. 1864. Still green & fleshy. Seed very sparse, white. Apparently all barren. No sign of embryo.

Dim. 40 x 9½.

Form almost exactly that of Phalanopsis. Vermiculation coarse. Colourless

Thorn Park,

Teignmouth, South Devon.

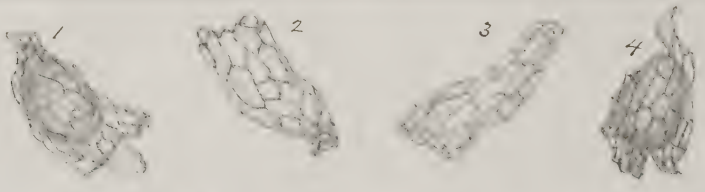
Classical, Mathematical, and Commercial School.

Mr. Edgelow, receives Young Gentlemen for Board and Education, on the following terms.

Under twelve years of age	40	guineas	per annum
Above twelve do	45	do.	do.
Modern Languages each	6	do.	do.
Drawing, in each style	6	do.	do.
Drilling	3	do.	do.

Dendrob. heterocarpum. Exam.d Feb. 8/69

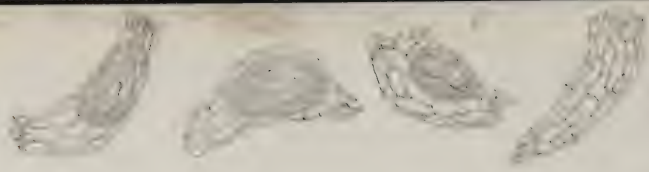
Average dim. 66 × 21. emb. 35. (5000 th.)
Much diff.ce 2 types. 1 to 3. long, thin, only colour-less, but opake from incrusted tunic; 4, 5 very plump, clear pale yellow, showing the network beautifully distinctly, as a sort of scroll or chalazal pattern. All appr.ly fertile.



Calanthe vestita impregnated by Limatodis rosea on Dec. 19. 1865. Seed-pod ¾ in. long, oval, pale green, woolly cut (not quite ripe, but decaying in footstalk) March 15 1866. Dehisced & scattered dust-seed Mar. 29. (Exam.d

Average dimens.ns 53 × 23. Embr. 27 (5000 th.) sub-conical, bluntly pointed at one end, wide, truncate at the other; clear, coarsely reticulated: embryo yellow-green, sub-opake. About 3 per cent. fertile.

On the contact of water, what seemed a radicle was protruded (in some cases) from the wide end, but itself unusually wide, & bladder-like (See fig. 1)* Figs. 1 & 4 fertile; 2, 3 infertile. *This form of the phenomenon occurred often enough to make me believe it normal: the exceptions were cases in which no protrusion took place; but in some of these I could trace it projected from the embryo, but not long enough to protrude beyond the tunic.



Limatodis rosea impregnated by Calanthe vestita on Dec. 19th 1865. Seed-pod agreed exactly with the preceding, but ripened in situ, beginning to dehisce 4th of April, 1866, when I cut it, & laid it aside in a paper to shed. Examined Apr. 9th

Dimensions & appearance agreeing with the preceding; but about 85 or 90 per cent fertile.

In the contact of water, a wide bladder like radicle was in <u>a very few</u> cases projected & protruded, exactly agreeing in every respected with what I have stated of the preceding.

Odontoglossum Insleayi, apod formed by spontaneous impregnation, in Aug.t 1865. 1¾ inch long, ⅝ inch wide at widest, viz. at one third from the point. Form sub-ovate with a rondo-triangular section, the angles marked by a deep furrow running throughout the length, ~~the inter~~ of each of these broad thick bands; these are separated from each other by three narrower bands wh. become alternate at the lips of the pod. Dehiscence takes place by the starting up of the distal extremities of these narrow bands, allowing the white dust-like seed to escape through the interstices formed. This occurred 5.th April, 1866.

Seed abundant, but (so far as I observed) wholly inportile, consisting of empty tunics. Average dimensions 43 x 18, embryo 0 (5000.ths) Form a conical sac, distinctly closed at one extremity, & widely open at the other. Perfectly colourless; nearly opaque when dry, but in the application of water clear, displaying a somewhat coarse reticulation. In this latter condition, the entanglement of a bubble of air in almost every tunic might have deceived an incautious observer into supposing that it was a contained embryo; but of this latter I could not detect a single example.

14)

Bletia Shepherdii.

impregn.d by

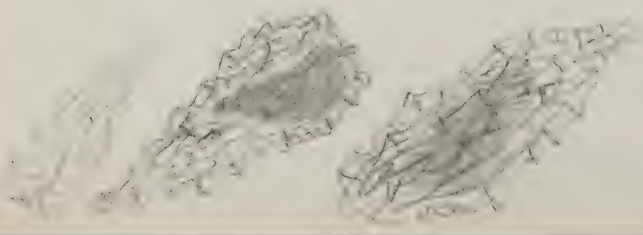
Catantre veratrifolia.

May 26. 1864.

The ovary swelled & formed but was small & slender. About the beginning of July its distal half withered, & I had given up all hope of it; the proximal portion however remained plump, & on the 25. July, this part dehisced & showed a quantity of fawn coloured rust-like seed, the terminal two thirds being quite destitute of seed.

Mostly, the seed consists of small coarsely netted cuticle, manifestly empty, but about 20 per cent are much larger, & inclose an irregular dark embryo (?) not nearly filling one cell: the appearance is not normal. This membrane is opaque, and shows a rudimentary line at its somewhat rend-like edges.

Average dimensions, barren 78 × 22. Fertile 121 × 46; Embr. 57 × 32 (5000 th.) The form is that of a sack or bottle, with many angles & irregularities; the wasting is very conspicuous, & complete.



15/

Bletia Shepherdii.

self impregnated, sub sponte. Apr. 1866.

Capsule began to dehisce, June 3rd 1866, & shed dust like seed copiously, of a drab hue. The capsule is represented at a (nat. size), it was of a dull greenish purple hue, retaining the petals & sepals.

Seed copious, nearly all fertile, coarse & rugged, broadly truncate at one end (b). Average dimensions 178 × 54; Embryo 60 × 30 (5000 lbs) Contact of water did not cause protrusion of a radicle.

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In one Volume, Foolscap 16*mo. with* 340 *Engravings, price* 7*s.* 6*d.*

PART I. OF A MANUAL OF

MARINE ZOOLOGY

FOR

The British Isles.

BY PHILIP HENRY GOSSE, A.L.S.

THIS Work gives in plain English terms the characters by which to determine the Class, Order, Family, and Genus of *every animal* known to inhabit the British seas. Every Genus is illustrated by a figure, drawn by the Author, principally from nature, and is accompanied by a list of the recognised Species.

A need long felt is supplied by this book, which, it is hoped, will be found a valuable *vade mecum*, if not indispensable, to every visitor to the sea-side, who desires acquaintance with its living treasures.

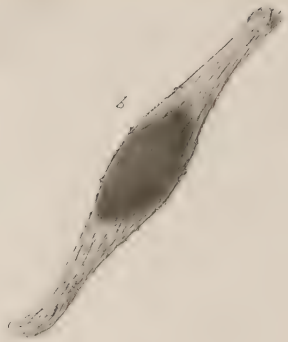
Part I., now ready, is complete in itself, including, together with Preface, Glossary, and Indices, the following Classes :—

I. SPONGES.	VII. ANNELIDA.
II. FORAMINIFERA.	VIII. ROTIFERA.
III. ZOOPHYTES.	IX. CRUSTACEA.
IV. MEDUSÆ.	X. CIRRIPEDIA.
V. STARFISHES.	XI. MITES.
VI. TURBELLARIA.	XII. INSECTS.

Every Class is introduced by a *résumé* of the most interesting points of its Natural History, with notes of the localities frequented by the Species, and directions for identifying them.

July, 1855.

LONDON: VAN VOORST, PATERNOSTER ROW.



Lolia circumalvina

(self impregnated): ovi sporte.

about 1st June 1870.

Fed dehisced in cerumal pouch early. Feb. 8. 1871. (see accom.) to scatter free from the seed, mounted pod on a gum & smile, cracks (changes) form, food in water, cov.d with l.t. glass.

Seed very large, perfecte, marbled with brown. lipid. sac adj. pale from slide before, as i (brown), pouch dark stain, intersect colourless chlorophyll reticulated. to lens, the stratum seen clear, green. – 1 micron, granule – dim. also dipl. "radioli".

Feb. 17. Germ.d open. little apparent change. the suspensor radicle is present, about ½ length of embryo. c tore apart, lolia needles in lenticle, several moving. the embryo, wh. is spherical at C. the lenticle (cotyl.) to be nothing but a sort of fibres, no membrane covering the mesoc. the suspensor seems not a prolongation of the integument of the embryo, a little [illegible] membrane, i.e. an the radicle-like end. the embryo longest lobe an outgrowth of the [illegible]. Well [illegible] [illegible] [illegible] [illegible] without marks. Dimensions: lenticle 220 × 40; embryo 70 × 40 (5000 ⅌).

Lycopodium cernuum. cont.

1871

attached b. seeds in pot under c as, beautifully green. Exam. many average emb. .70 × .55: several, on being freed from testa showed one or more unicellular tubules from a protrusion resembling like point of surface near the middle. See d); the longer about equal in length to diam. of embryo. the other suspensor is seen on tearing open the testa, to be attached to the interior of latter. d. shows this; some of the loose fibres of the testa meshes remaining attached to suspensor. I suppose the tubules to be rootlets.

11. The majority now of the embryos, on being carefully exposed the testa being torn off with needle pricks, shows see. e (from 2 to 5). the latter number from two points at opposite ends near together) rootlets. One of these was twice as long as the longest diam. of embryo. In one or two cases more rootlets had pierced through the testa.

23. We took up carefully some bits of the sphagnum were covered with the seeds now brilliantly green, & having selected a small block in which a coat of nature moss was growing, poked these bits of sphagnum in among the moss & stems & others among, leaving many seeds scattered here & there. Then having drained water (from the finger bowls) on the whole to carry the seeds down into the moss, we suspended the block, thus seeds dismissed, in a warm damp shaded place in the Hothouse.

24. The seeds have somewhat changed their form, in a spindle & a bottle is pear form, e. the embryo being more swollen at the end remote from the suspensor, as apparently by having moved towards that end of the testa. the testa or the meshes seem relieved & stretched. Embryos is now deemed as more translucent, the cellular structure (of the outer layer) is rather more distinct, the green colour slight, but more superadded in lines. The rootlets have not advanced since obsd. 11th; in many samples no even are conspicuous. To the eye, even to the naked eye seeds in situ as shown seem decidedly green, giving a distinct greenness in patches to the peat, moss & crooks in the dry air.

SEED.

Capsule of Cypripedium Shepherdii
ripened June 10.? Exam.? July 10/63

Full 90 per cent fertile

average
90 long - 18 thick - 40 embryo
(4250 ths inch)

See Book "Notes on Cultivation" for
First Microscopic Observations on
Orchid Seeds.

Notes on
Orchid - Seeds
from
Lewis Harrison.
Oct. 1863.

(Anderson)

Gallop Course

18	14		30	16
15	24		25	28
24	12		34	18

$$\begin{array}{r} 80 \\ 2 \\ \hline 160 \\ 27 \\ \hline .0187 \end{array}$$

$$\begin{array}{r} 36 \\ 2 \\ \hline .0084 \end{array}$$

CULTURE.

MARINE
NATURAL HISTORY CLASS.

In the summer of 1855, I met, at Ilfracombe on the coast of North Devon, a small party of ladies and gentlemen, who formed themselves into a Class for the study of Marine Natural History. There was much to be done in the way of collecting, much to be learned in the way of study. Not a few species of interest, and some rarities, fell under our notice, scattered as we were over the rocks, and peeping into the pools, almost every day for a month. Then the prizes were to be brought home, and kept in little Aquariums for the study of their habits; their beauties to be investigated by the pocket-lens, and the minuter kinds to be examined under the microscope. An hour or two was spent on the shore every day on which the tide and the weather were suitable; and, when otherwise, the occupation was varied by an indoor's lesson, on the identification of the animals obtained, the specimens themselves affording illustrations. Thus the two great desiderata of young naturalists were attained simultaneously; they learned at the same time *how to collect*, and *how to determine the names* and the zoological relations of the specimens when found.

A little also was effected in the way of dredging the sea-bottom and in surface-fishing for Medusæ, &c.; but our chief attention was directed to shore-collecting. Altogether, the experiment was found so agreeable that I propose to repeat it by forming a similar party every year, if spared, at some suitable part of the coast.

Such ladies or gentlemen as may wish to join the Class should give in their names to me, early in the summer; and any preliminary inquiries about plans, terms, &c. shall meet the requisite attention.

P. H. GOSSE.

58, Huntingdon Street,
Islington, London.
March, 1856.

Cattl. citrina
[Maxim.]
Cyrtochilum maculatum
Dein grandiflora
Calanthe [illegible]
Laelia anceps
Lycaste Skinner
Oncidyl. [cirhosum]
grande
Oncidium lanceanum
Sophronitis grandiflora
Trichopilia [illegible]
Epid. [illegible]
Dend. nobile
superbum
Dendrobium ? Trinidad
sphaerolabium
Cattl Skinner
Cypripe. insigne
Dendr. moniliforme
" Kingianum
Laelia majalis
Lycaste cruenta

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P. H. GOSSE.

58, Huntingdon Street,
Islington, London
March, 1856.

Calanthe veratrifolia ? Mt. Isles
Cattleya crispa
Cypripe. tonsum
Dendrob. densiflorum
" nobile
Oncid. flexuosum
papilio
Ste[illegible] insignis
Zygopetal. Blakii

Calanthe vestita (to try
Cypripe. barbatum "
Cyrtopodium Andersonii "
Leptotes bicolor
Maxill. Harrisonia
Miltonia spectabilis
Oncid. flexuosum
Peristeria elata Panama
Phajus albus
Trichopilia tortilis (try

Stanhopea tigrina
Devoniana } Mexico
venusta Guatemala
oculata Oxaca

Cypripedium fairieanum
acaulo
China

Oncid. crispum Oxaca Mts

Dendrob. Farmeri
Kermianum } 50° to 54° 110 ft. 1111.
densiflor
nobile } 1160 " "

Thursday 4 — 6 o'clock
250 Orchids from Kew
J.D.H. ii. 281

MARINE
NATURAL HISTORY CLASS.

In the summer of 1855, I met, at Ilfracombe on the coast of North Devon, a small party of ladies and gentlemen, who formed themselves into a Class for the study of Marine Natural History. There was much to be done in the way of collecting, much to be learned in the way of study. Not a few species of interest, and some rarities, fell under our notice, scattered as we were over the rocks, and peeping into the pools, almost every day for a month. Then the prizes were to be brought home, and kept in little Aquariums for the study of their habits; their beauties to be investigated by the pocket-lens, and the minuter kinds to be examined under the microscope. An hour or two was spent on the shore every day on which the tide and the weather were suitable; and, when otherwise, the occupation was varied by an indoor's lesson, on the identification of the animals obtained, the specimens themselves affording illustrations. Thus the two great desiderata of young naturalists were attained simultaneously; they learned at the same time *how to collect,* and *how to determine the names* and the zoological relations of the specimens when found.

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Such ladies or gentlemen as may wish to join the Class should give in their names to me, early in the summer; and any preliminary inquiries about plans, terms, &c. shall meet the requisite attention.

P. H. GOSSE.

58, Huntingdon Street,
Islington, London.
March, 1856.

[illegible] 389

[illegible]

[illegible]

Cruise [illegible] of Cook O. by [illegible] 1175
[illegible] 1085

[illegible]

[illegible] 1158

[illegible] 1179

[illegible]

9000 ft. max. 70° min. 40° 8/9

Oct. 1. Gard. Chron. 1864. p. 939.

Phalaenopsis - best over water.
Cattleya superba. more heat than others.
*Bäkéria. to bloom. remove from cool when shoots half-grown, to a med. heat, near glass, with no shade till growth.
Burlingtonias in Baskets, saturated.
Pleiones. pans. water freely.
Calanthes. baskets of peat, loam, cow dung & sand - near glass.

Sarracenias; cool.

Dionaea.

Barkeria

Deciduous. Small. Free flowering.
Free-rooting. Flat block. No moss
Cool. Air. Water twice a day.
Near glass. Little sun
Peat is fatal. Spring. Larch leaf.
Nest of sticks or twig-raft.
Out of doors in shade over water. $\frac{11}{338}$

B. elegans. Winter

B. Skinneri. Autumn & Winter.

Gard. Chron. $\frac{1865}{1231}$.

Cattleya amethystina. Roots never dry.
Oncid. crispum. On a block, too dry. Basket
Pleione. Vide.
Dendr. Devonianum. Basket full of moss. Usually too dry.
Odontoglossums. Young or imported. Small pot, plunged in damp sand: little watering.

Orcid.

ampliat. shore

altissim. W. Ind.

sphacelat. Guat. Oax. 3000

Barkeri
unguicul. } Mex. m.ts

(undulatum) N. Gre. 6270

tigrinum
pulchellum } Jamaica

crispum. Organ M.ts

flexuosum. Brazil

excavatum. Peru

Cy. maculat. Mex & Guat.

luridum Jam.a low

Sanceanum. Surinam

bicallosum Guatemala

leucochil. Guat. cold. S 60. W 36.

ornithorhy. Guat. Mex. 68°-75°

papilio. Caracas 5000 ft.

Errors 1863

Many others rest too soon

Orced. flex. Ships

Insects gen.ly allowed

Must fumigate twelfth.

each alternate week.

Abstract
W. H. Hill.
Apl. 2-15. 1863

P. H. Gosse. Esq.r
58 Huntington Street.
Barnsbury Park.

Indian.

Aerides odor.
" "
" ros.
Brassavola 1
" 2
" 3
" digbyana
Brughtonia sang.
Bolbophyllum Lobbi
Calanthe veratrif
" vestita
" discolor
Coelogyne speciosa
Cymbidium gigant
" aloifol.
Cypip. barbatum 3
Dendr. aggreg.
chrysanthum
formosum
Jenkinsi
moschatum
Paxtoni
Lalia Perrinii
Laliopsis Dom.
Oncid. luridum
papilio
altissim
Lanceanum
Phajus Wallichii
Phalaenopsis
Saccolabium
Vanda tere
nicolor
suavis
Vasellia stal.

Mexican

Burlingtonia venusta
rigida
Bletia Shep.
Cattleya 20
Chysis bract.
Coelogyne cristata
Cypripedium insig.
venustum
Cyrtopodium Anders.
Dendr. densiflorum
Farmeri
moniliforme
nobile
Pierardi
pulchellum
Epidendr. 5
Gongora 2
Sonopsis penic.
Lalia purpurata
Limatodes rosea
Miltonia spectab.
candida
" "
Clowesii?
Maxillaria Harris.
Odontogl. citrosm
Oncid. Barkeri
bicallosum
crispum
flexuosum
ampliatum
Phajus Tankervillia
albus
Rodriguezia ...

Schomburgkia 3
Sobralia macr.
Sophronites gr.
Stanhopea 8
Trichopilia 3

Cilter
Renata Hamb.
Brassia 1
2
maculata
Wrayce
Leptotes bicolor
Maxillaria
Teuteria
Rhynchera
Zygopetalum.

m 2 [illegible]

I

Lalia autumn. 3/169
superbiens 3/320
var. spec. —
} 11/382 | 17/197
cinnab. 8/147
grandis 10/39
flava 16/165
Brysiana 18/144 146

Lycaste Skinn. 3/169 14/318
species 6/73
Harrisonia 10/141

Lacona 6/37
Lissochilus 6/72 T.
Limatodes rosea 9/220

Leptotes serrul. 10/141
bicolor 13/371

Maxillaria 6/72

Miltonia 6/101
spectab. Mor. 6/287 fig. 11/76

Mormodes 6/101 6/330 f.

N

Odontog. grand. 3/169
pulchell. 4/98
citrosmum 4/188. 5/394 f.
Rossii
Cervantesii
membran.
} 5/9. 5/37
species 6/129 14/22
hastulatum 14/22
Insleayi 15/464

Oncid. crisp. 3/169 5/9
Insleayi 4/98 5/9. 6/162. 192
species 6/228
varicosum 11/76
Barkeri 11/216
phymatochil. 12/35
ampliat 12/215 14/140
Cavendishii 13/371
Pinelliana 16/474 fig.
luridum 18/408 fig.

Phalaenopsis 5/37
grandiflora 10/141

Paxtonia 6/287 seed 8/36
Peristeria sp. 6/292 T.

Pesomeria 6/320 T.
Phajus sp. 6/320 T.

Promenaea 6/370
Pleione hum. 6/381 f.
Wall. 13/117

Paphinia tigrina 15/141

Renanthera 5/65

Sebratia 3/335 6/267 fig. T. 7/23

Saccolabium 4/189

Stanhopea aurea 4/189
bucephalus
Devonians.
aurea
graveolens
} 11
insignis
Martiana
oculata
quadricornis
saccata
tigrina
Waidii
} 4/225

Scuticaria St. 4/189. 5/101
Schomburgkia 5/66. 6/399 13/449

Sophronitis 5/101
Stenia 7/24
Stenorhynchus 7/49 T. 13/408
Spiranthes 7/49 T.
Sarcopodium 7/144 fig. 12/215
Stanhopea bucep. 12/215

Trichopilia cocc. 7/82 fig.
spec. 7/87
tortilis 12/154

Uropedium 6/46 fig.) 18/82

Vanda teres. 8 fl. 4/132
cristata 4/226 10/141
suavis
× tricolor
violacea
} 4/254 6/253 fig.
Batem. 8/213
caerulea 9/81
gigantea 17/234

Vanilla sp. 7/149

Warrea sp. 7/178 T. 11/338

Zygopet. 7/215

Culture

Aerides (to branch. 3/111) 4/125
PROP. 7/272 17/109
affine. 13/129

Anactoch. 3/224. 286. 5/130 P 7/307
P 17/326 11/345
Angraecum eburn. 4/161

Anguloa 5/129 P 7/272
Arundina 5/130
Acanthophip. Prop. 7/271
Acineta P. 7/271

Cattleya citrina 3/143. 4/317 12 17/35 109
Skinneri 3/169. 15/199
spe. 5/193 P 7/335
back breaks 12/12
maxima 15/164

Calia macrost. 15/199

Calanthe veratr. 3/167 12/154. 15/199
bed-culture 5/224
P. 7/334
vestita 9/123 13/117 15/199

Cyrtopodium 3/267 15/200

Calogyne Gardn. 3/279.
spe. 5/229

Chysis 4/161 P 7/335

Camarotis 4/290 P 7/334
Cirrhopetalum 4/317
Comparettia — " —
Calanthes 5/166
Catasetum 5/167

Cirrhea 5/229
Coryanthes 5/256 P 7/369
Cycnoches 5/257
Cymbidium 5/292 15/292 T
Cypripedium 5/293 3/310 14/151 T
15/200 293
hardy 15/217 426 16/48
venust. 15/391

Cool. 10/51 12/11 15/pass. 293 16/p.

Cockroach 15/93

Dendrob. young 3/160 P 7/370 10/314
fimbriat. 3/188 (water)
speciosum 3/324 5/351 13/449 15/391
(species) 4/354 5/357 10/223
Devonianum
cool. 15/279.
thinning buds 16/177

Disa grandif. 12/232

Dendrochilum 5/385

Double glazing 16/408 17/304
Disease 8/92 8/119 10/13 13/444

Epid. rhizoph. 3/200 5/386 15/279
bicornut.
vitellin. } 4/354 " "
macroch.
species 6/9
fragrans 13/408
aurantiac. 15/279

Eulophia G. 6/9 T

Galeandra 6/10 P 7/398
Govenia 6/37 T
Granmatophyllum 6/37
Goodyera

Huntleya 3/199. P 8/22
Houlletia 6/37
Huntleya 3/199

I

Lelia superbiens 3/323. 4/382 13/371
15/293
majalis 15/293

Lepletes 5/9 16/383 cool)

Lycaste 6/73
Skinneri 16/384 cool.)

Limatodes 9/220

Maxillaria 6/73
Harrisonia P 16/384 cool)

Miltonia 6/100 P 8/22. 9/353
spectab. 16/384 cool.

Mormodes 6/101

Notylia bicolor 3/143

Neottia sp. P 8/22

Odontogloss. 5/9 6/129 P 8/22
13/409 16/384 cool)

Oncidium 5/37. 6. 228. 257 P 8/36
variegatum 7/45 fs.
papilio 9/233 10/482 13/192
cool sp. 16/456
crispum 5/37

Phajus Wall. quick fl. 3/117
W. & T. in Feb. 3/235 15/462
Tank. 4/34. 6/357.
P 8/36 10/314 16/457 cool)
albus

Phalænopsis. Moss or 3/122
no moss
5/37 P 8/36 16/159 | 16/281. 331.

Pleione 3/279 13/117 16/157 cool

Paphinia 6/257
Peristeria 6/293 16/456 cool)

Promenæa 370

Renanthera 3/131. 5/65 P 8/52
9/43
Rodriguezia 5/65

Saccolabium 3/111 4/189 P 8/52

Scuticaria 3/143 4/189 5/101 P 8/85
Sobralia 3/335. 7/24 P 8/85

Stanhopea 4/225 P 8/86

Schomburgkia 5/66. 6/399

Sophronitis 5/101 P 8/86 | 15/141 16/457 Cool
Stenia 7/24
Spiranthes 7/49

Trichopilia 7/87
Trichosma
Trizonidium } 7/115

Vanda teres 3/131 P 8/115
tricolor 4/254
Roxburghi 7/115
caerulea (cool) 9/123

Vanilla 5/101 7/149

Warrea 7/178

Water Orch. House 16/208

Zygopetal. 7/241 9/233 13/408 15/314

Description

Anactochilus 3/224

Aerides maculos. 5/45 (fig.)

Angulo sp. 5/129 8/147

Acincta 8/147

Arpophyllum fig. 10/39 14/141

Angræcum bifol. 11/76

Barkeria Skin. 3/155 13/371
Linsleyana 3/267 11/438
spectab. -"-

Brassavola Digb. 4/255
glauca -"-

Brustinglonias 4/290 | 5/166 17/109

Bletias 5/130

Brassias 5/130
cinnamonea 14/22

Callega crispa 3/169 14/372
Mossiæ "
aclandiæ
citrina
marginata } 4/317 - 8/214
bulbosa
labiata 5/108 fig.
species 5/193
pallida 9/500
Skinneri 10/141 12/35
Aclandiæ 10/220
Pinellii 11/76
Lodigesii 14/372
maxima Q. 15/164

Calogyne Gardnerii 3/279
spec. 5/229

Cymbidium eburn. 4/98 } 5/292
? aloifol. 4/354
Mastersii 15/141

Cypripe. caudatum 4/98
spec. 5/293 3/310 6/179.
gullatum. 6/82 f.
Lowi 14/22 17/169 fig. 11
barbat. sup. 140
hardy sp. 15/218
Chysis 4/161. au. 6/315 f.
bracteac. 10/39
Lindmanii 18/82
Camarotis 290
Catasetum 4/290. fimbr. 5/145 f.
5/166
Corrhopetalum 4/317.
Compacettias "
Calanthe 5/166
masuca 5/223 fig.
curculig. 11/217
Cirrhea sp. 5/229
Coryanthes ~~229~~ 256
Cycnoches 5/257
Calanthe bicolor 12/215

Cyctochil. stellat. 14/140

Dendrob. macrophy. 3/111
Devonian. 3/111 8/213
pulchell. 3/169 4/162 357
speciosum 3/324
Pierardi 4/162. 12/154
species) 4/353 5/322. 357.
habitats 6
transparens 3 6/30 fig.) 12/296
nob. Blandian. 9/500
onosmum 10/39
pulchell. 10/39 12/73
Farmeri 12/6 ~~14~~/22
macranthum 12/6 14/22
fimbriatum ~~8~~ 12/6 18/90
formosum 12/296
aduncum -"-
tortile 16/165

Epid. vitell. 3/169. 4/354.
rhizophorum 3/200
crassifol. 4/280
bicornut. 4/354
macrochil. "
species 6/9 5/385
vandafolium 12/98

Eria 6/9 16/333

Eulophia 6/9 T.

Gongora 4/162

Galeandra 6/9

Govenia 6/36 T.

Grammatophyll. 6/37 T.

H

Italy. Seaport. Dead.

Satyrium secchum
Brasavola nodosa
Bonapteria sanguinea
Cypripedium barbatum

Sophronitis grandiflora
Limatodis rosea
Calanthe vestita
Catasetum tridentatum
Cologyne speciosa

Limatodis rosea

Trichopilia tortilis
Ansellia Natalensis

Epidendrum crassifolium
Chysis bractescens
Lycaste Skinneri

Epidendrum ovulum
Dendrobium nobile
— " — pulchellum
Calanthe discolor
Broughtonia sanguinea
Cattleya amethystina

Leptotes tenuis
Cypripedium barbatum
Rodriguezia secunda
Oncidium triquetrum
Aerides Lobii
Vanda teres
Lælia purpurata

165.

Satyrium erectum
Brassavola nodosa
Miltonia candida

167.

Cattleya superba
" — Forbesii
Cypripedium venustum
Oncidium crispum
Lycopetalum Mackaii

168.

Oncidium crispum
Lycopetalum Mackaii
Dendrobium nobile
Sophronitis grandiflora

Orchids shifted 1867.

1866
Oct. Miltonia spect.
" Houlletia Brock.
17 Lycaste Dayanum
" denticulatum
23 Thrixspermum bicolor.
31 Stanhopea insig.
— " — " —
Nov. 12 Max. Harrison.
16 Miltonia Morel.
23 Stan. ocul. v.
Aerides roseum
24 Vanda caerulea
26 " suavis.
Saccol. Blumei
Oncid. bicallos.
27 Aerid. affine
28 " quadrissim.
Lycaste bicolor 2
Sacc. maximum
Vanda cristata
30 Saccol. gutt.
" curvifolium
Angraecum — ?
Miltonia cand.
Dec. 3 Brasavola 3.
4 Brassia macul.
5 Brasavola cord.
7 Stanh. Tigr. Fr.
10 Lelia cinnabar.
Cyrtochil. mac.
Maxill. gram.

1866
Dec 12 Cymbidium giran.
Cyrtopodium Cand.
21 Coelogyne cristata
1867
Jan 16 Dendrob. nobile.
Oncidium flexuos.
17 " " sphacelatum
Trichopilia tortilis
18 Dendrob. chrysan.
Epid. vitellinum
" atropurpureum
" macrochilum
Cypripedi. crinit.
Oncidium bicallos.
1) Brassavola Dar.
3) Lycaste aureum
4) " nobile
16) Thrixspermum
" " " maculatum
19 Cypripedium bractescens
Epid. cinnabar.
Houlletia Brock.
24 Oncid. excavatum
Oncidium (gutt.
25 Coelogyne speciosa
Odontogl. s.
Cattleyanum
Calanthe vestita
28 Cypriped. insigne
" " venustum
Odontoglos. 141.
29 Lelia 85.

1857

Jan. 30 Oncid. crispum
Max. Harrisonia
Vanda tricolor 1.
31 Onc. formosum
Schomb. Faca
Lelia acuminata
Feb. 2 Sophron. grandifl.
"Bulger. Jub. b."
4 Cattleya T.
" Mossiæ
" labiata
" Forbesii
Lisa grandifl.
Stann. Leven.
Dendr. fimbriat.
5 Lelia purpurata
Catt. amethyst.
" Leopoldi
" crispa (Stan.
Stank. Huckeri
Lemn. bicolor
14 Hartwegia purp.
Sophronit. cerina
15 Bulger X.
16 Cataseum trident.
Dendr. nobile 2.
21 Lelia albida
M. Dendr. Dicranti 2
7 Bonatea speci.
Dend. moniliforme
" speciosum

1857

Mr. 7 Odontogl. grande 1
Calanthe discolor
Oncidium ?
Cattleya Trianei
" sp. Stan.
Lelia Perrini
5 " anceps
" majalis
Cattleya elegans
" Loddigesii
" crispa 1.
Odontogl.
16 " Instanei
Angulo[illegible]
18 Dendr. Paxtoni
Lycaste cruenta
" aromatica
Oncid. unguiculatum
" phalaenopsis
" cruentum
Odont. bulchellum
" 1
" 6
" citrosmum 1
Helcia sanguinol.
23 Dend. macrophyllum
Cattleya Acklandiæ
29 Odontog. hastilabium
30 Bark. Skinneri
Apr. 5 Ansellia Natal.
Cambr. aloifolium
5 Leptotes [illegible]

1857

Ap. 9 Dendrob. Farmeri
18 " Dalhousianum
Oncid. Lawrenceanum
30 Bletia Shepherdii
Celia Bowringiana
[illegible]
May 30 [illegible]
Jun 13 Gongora bilacina

Jun 27 Chysis bractescens.
Dec 11 Cyrtochil. andersoni
Dendr. superbiens
1858
Jan 7 Epid. radicans
8 Lisa candida
Calanthe veratrifolia
Stenia odorat. 1
Dendr. chrysanthum
Cornosus
10 Brassia Lanceana
Miltonia candida
Lanea [illegible] 2
Cattleya [illegible]
23 Gongora Trailliei
" Stanhopea 14.
Odont. citr. ros
29 Epid. atropurpureum
" macrochilum
Cattl. Mossiæ
Brassav. grandiflo.
[illegible]
Feb. 6 Dendr. nobile 11

July

Acineta densa
Barkerii
Aerides 5-vulnerum
suavissim.
Bolbophyll. Henshale
Cattleya candida
crispa
Harrisoniæ
Lemoniana
Schilleriana
violacea
Cycnoches Loddigesii
Cymbid. pendulum
Cypriped. barbatum
Lowi
Dendrob. albosanguin.
sanguinolent
Epid. phœniceum
Galeandra cristata
Lælia Brysiana
elegans
Miltonia spectabilis
Mormodes citrinum
luxatum
Oncid. divaricatum
Lanceanum
longipes
luridum
pulchellum
pulvinatum
Peristeria elata
cerina
Phajus albus
Pleurothallis Stapeliodes
Saccolab. Blumei
furcatum
Sobralia liliastrum
macrantha
Stanhopea Devoniensis
oculata
tigrina
Uropedium Lindleyi
Vanda Batemanni

August

Cattleya granulosa
Loddigesii
Miltonia bicolor
Stanhopea aurea
insignis
Martiana
Trichopilia picta
Vanda Lowii
gigantea
Rex Bergii

Sept.r

Barkeria Lindleyana
Brassavola acaulis
Cattleya marginata
pumila
Miltonia candida
Clowesii
Moreliii
Regnelli
Odontogl. grande
wroskinnii
Oncid. bicolor
crispum
Peristeria guttata
Vanda caerulea

Oct.

Angræc. bilobum
Burlingt. Knowlesi
Calanth. vestita
Cattleya bicolor
guttata
labiata
Cypripe. Fairieanum
Dendrob. Gibsoni
Huntleya Wailesiæ
Lælia purpuracea
Perrinii
Pleione maculata
Wallichiana
humilis
Promenea Rolliss.
Zygopet. intermed.

Nov.

Angræc. sesquiped.
Barkeria Skinneri
Cattleya maxima
Dendrob. Lowi
Oncid. Forbesi
ornithorhyn.
Sophron. grandiflo.

Dec.

Angræc. eburneum
Inscidia officinalis
Aspasiaphyll. spicatum
Barkeria elegans
Bletia Shepherdi
Brassavola Digbyana
Burlingtonia amœna
Cattleya Warcewiczii
Coelogyne Garderiana
media
Cymbidium gigantem
Mastersii
Cypriped. insigne
purpurat.
venustum
Dendrob. album
chrysotoxum
macrophyll.
moniliforme
nobile
Pierardi
Wallichianum
Lælia acuminata
albida
anceps
autumnalis
Limatodes rosea
Zygopet. brachypetalum
crinitum
Mooreanum
Barkeria Lindleyana
Brassia caudata
Dendrob. heterocarpum
Gongora maculata
Lælia purpuracea
Lycast. cruenta
macrophylla
Oncidium Baueri
Odontogl. Insleayi
Bictoniense
pulchellum
Stanhopea eburnea
Trichocentrum fuscum

Warrea cyanea
bicolor

Jan.	Feb.	March	April.	May	June
Epid. vitellinum	Brassavola glauca	Bletia patula	Arpophyll. gigant.	Aerides virens	Acineta Humboldti
Epidendr. phyl. specios.	Cattley. Walkeriana	Camarotis purp.	Burlingt. fragrans	Brassia maculata	Aerides crispum
Iris paniculata	Calogyne cristata	Cattleya amethystin.	Chysis bractescens	verrucosa	Fieldingii
Iris Maryannia	Cymbidium eburn.	Mossiæ	Coryanthes speciosa	Wrayæ	transparens
peduncularis	Cypripe. biflorum.	Skinneri	Cypripe. villosum.	Calanthe veratrifol.	maculosum
superbiens	Dendr. pulchellum	Cypripe. caudat.	Dendrob. crepidat.	Cattleya citrina	McMorlandi
Isoles bicolor	Miltonia cuneata	hirsutiss.	Dalhous.	Edithiana	nobile
Jaste Deppii		Dendrob. aggregat.	Farmeri	intermedia	odoratum
Skinneri		anosmum	fimbriat.	lobata	roseum
Miltonia Karwinski		Cambridgean	Pierardi	quadricolor	Veitchii
Oncid. maculatum		densiflor.	primulin.	Chysis Limminghi	Williamsii
membranaceum		lituiflor.	Epidend. bicornutum	Coryanthes macrantha	Angræcum caudatum
pulchellum		Epidend. aurantiac.	macrochil.	Cypriped. Dayi	Angulos. Clowesii
Rossii		crassifol.	Stanfordian.	Dendrob. Devonian.	Reichenbachii
primulinum		Hamburgia.	Leptotes serrulata	Falconeri	uniflora
Oncid. Barkeri		Lælia cinnabarina	Odontogl. Pescatorei	longicornu	virginalis
bicallosum		flava	Oncid. ampliatum	transparens	Arpophyll. cardinale
Cavendishii		Lycaste cruenta	sphacelatum	tortile	Barkeria melanocaul.
flexuosum		Odontogl. Warneri	Zygopet. rostratum	Epid. cinnabarinum	spectabilis
incurvum		Oncidium sarcodes		Lælia grandis	Brassia Laurenceana
oblongatum		sessile		majalis	Broughtonia sanguinea
unguiculatum		Phajus Wallichii		purpurata	Calanthe furcata
Phajus Tankervillia		Saccolab. miniatum		Schilleriana	masuca
Schomburgkia crispa		Trichopilia suavis		xanthina	Cattleya Aclandiæ
Sophronitis cernua		Vanda cristata		Oncid. bifolium	amabilis
violacea		insignis		phymatochil.	McMorlandi
				Saccolab. ampullac.	superba
				curtifolium	Wagneri
				guttatum	Walkeriana
				præmorsum	Warneri
				retusum	Calogyne Lowi
				Schomburgk. tibicina	Coryanthes maculata
				Trichopilia coccinea	Cycnoches barbatum
				crispa	chlorochil.
					ventricosum
					~~Cymbidium gigant.~~
					~~Mastersii~~
					Dendrob. calceolare
					cretaceum
					Dendrochil. filiforme
					glumaceum
					Epidendr. alatum
					aloifolium
					maculatum
					verrucosum
					Galeandra Baueri
					Huntleya meleagris
					Odonto. Coss. citrosmum
					hastilabium
					nævium
					Vanda teres
					Warrea cyanea
					bicolor

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(LATE OF 19, HOLLES STREET,)

LONDON.

Dec. 12 1868

Messrs. BULL, SIMMONS & Co. beg respectfully to thank P. H. Gosse Esq for his letter received today

for which they are much obliged.

They have not on hand a list of Portraits of Eminent Men but shall be happy to supply copies of any of that may be desired at prices varying from 1/- to 1/6 each

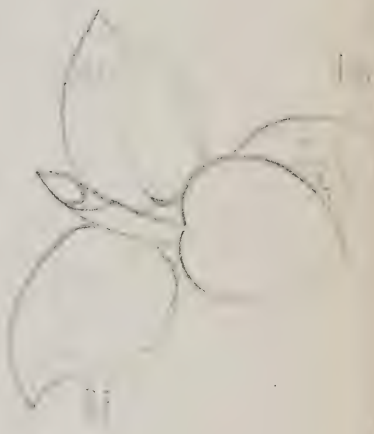
BULL'S LIBRARY, 52, Wigmore Street, Cavendish Square, London.

15 Dec. 1868.

P. W. asks for names of the
3 Anoectochili. as under
apologising for poorness of leaves.

Answers

1. Green silver lines argenteus
2. Olive gold lines intermedius
3 Olive white centr. band xanthoph.



1868. Dec. 22. Iss. Ud. gra. flo. bud

Acineta Humboldtii												
Aerides affine roseum												
Saltii												
odoratum 1												
" 2												
quinquelocum												
roseum												
maculosum												
Anacheilus Lowii												
Angræcum												
Angulo												
Ansellia Nubeloris												
Barkeria elegans												
Skinneri												
Shuttleworthii												
Bletia hyacinthina												
Shepherdii												
Burlingtonia lecona												
fragrans												
Brassavola grandiflora												
nodosa												
Digbyana												
Brassia Lanceana												
maculata												
Bonatea speciosa												
Bolbophyllum B. 3												
" 4												
Bonatea speciosa												
Calanthe rectipalpa												
vestita												
hybrid (Cal. + Lim.)												
discolor												

	Iss	Ifd		
Cattleya Aclandiæ	10	38		
amethystina	5	35	4	2
amethystoglossa	2	3	1	
citrina	32	8	7	1
crispa 1	7	32	5	
" — 2	2	[illegible]	[illegible]	
elegans	[illegible]	11	2	
labiata 1	3	11		2
" — Low	[illegible]	1		
Leopoldi (intermedia	1	[illegible]		
— " — Low)	9	1	1	
Loddigesii	12	38		
maxima B.	[illegible]			
" L.	[illegible]			
Mossiæ 1	1			
157½				
269	[illegible]	1		
53	14	14	1	
Skinneri	3	17		2
superba	—	5		
Trianæi	1	9		3
Dowiana	4	2	1	
128	8	4		
225	11	13	1	
269 max.	1	1	1	
151 pumila	[illegible]			
T. (intermedia	8	36	6	5
sp. Stevens		8	1	1
Mossiæ 157.	8	15	2	
Wallisii	3	6	1	
Calogyne cristata	60	30		1
B 2.	5	5		
" 11				
" 12	[illegible]			
" 13	[illegible]	[illegible]		

	Iss	Ifd	gro	Flo
Calasetum tridentatum	[illegible]	3		
Chysis bractescens	3			
Coryanthes	22	5	3	
Cymbidium aloifolium		15	2	8
gigantum	2	17	2	
Cypripedium barbatum				
insigne		31		9
venustum		14	1	7
[illegible]	[illegible]			
Cyrtopodium [illegible]	[illegible]		3	
Cyrtochilum maculatum	4	2		
Dendrobium aduncum	14	18		
aggregatum 1	12	31		
" 2	[illegible]			
" majus 1	[illegible]	21		
" " 2	12	11		
linearis	37	41		
[illegible] longicornu	[illegible]			
chrysanthum	31		11	
chrysotoxum	[illegible]	[illegible]		
clavatum	[illegible]	7		
Dalhousianum	14	[illegible]		
Dayanum	[illegible]	[illegible]		
densiflorum	1	5		
Davenianum	17		2	
eburneum	35	[illegible]		
Farmeri	18	16		
fimbriatum	32	21		
formosum gigant.	[illegible]	[illegible]		
heterocarpum	11	[illegible]	3	
Jenkinsii	[illegible]	21		
Kingianum	[illegible]	[illegible]		
macrophyll. gig.	[illegible]	5		
moschatum	19	12		
nobile	41	35		
Paxtoni	[illegible]	11		
Pierardi				

	lss	Vd	gro	flo	bud
Dendrob. speciosum	12	10			1
tortile	14	5			
Bulger 5	2	6			
6	7	5			1
7	2	4			
8	14	[illegible]			
9	15	1			3 [illegible]
albo-sanguineum	[illegible]	16			
Bulger 14	4	2			
Disa grandiflora					
melanoea			5		
Epidendrum ciliare	2	13			
cinnabarinum	7	9			
crassifolium		2			
crotesceus		1	1		
cochleatum	[illegible]				
fragrans	7	9	1		
vitellinum	12	12	1		
dichromum	[illegible]				
Gongora mac. Frailea	5	18	1		
" fusca	9	2	3		
119.	[illegible]	7			1
Harlwegia purpurea	6	21			7
Helcia sanguinolenta	1	2			
Houlletia Brocklehursti	1	2	2		
Lalia acuminata	2	8			
albida	10	13		17	
anceps	14	27		7	
autumnalis	[illegible]	11			
cinnabarina	1	11			2
majalis 1	12	7			
" 2					
Perrinii	7	32			
purpurata	8	3	5		3

	lss	Vd	gro	flo	bud.
Lalia superbiens	1	3			
85	1				
Laeliopsis lilacina	1	[illegible]			1
Leptotes bicolor		35			1
Limatodis rosea	[illegible]			24	
Lycaste aromatica	4	2			
cruenta	1				
Skinneri	22	13	1		2
" 1	7	2			1
" 122	21	12			7
Maxillaria grandiflora	5	18			
Mesospinidium sanguineum	9	6			
Milt[illegible] [illegible]	7	4	2		
[illegible]	1	8			
[illegible]	4	15	1		
[illegible]	11	13	4		
Cattleya [illegible]	12	7	1		
[illegible]	16	7	2		
[illegible] 1	7	19			
" 2	4	10			
[illegible]	[illegible]		1		
[illegible]	4	2	1		1
Mossiae	5	5		18	
[illegible] 1	3	8			
" II	5	4			
coronaria	5		4		
maculata	25	20	8	4	
Alexandra	5		1		
phalaenopsis	16		4		
nobilissima	15	13	3	7	[illegible]
pulchellum	3	6			
Trianae	3	1	1		
triumphans 1	16	6	2		1
" 2	2	1	1		

	7ss	7ed	gro	Flo. bud.
[illegible] 80	10	3	4	
169	1		6	
1	[illegible]			
2	5	7		
3				
[illegible] 4	3	2	1	
5				
6	1	10	1	
7				
Oncidium Phalaenum 1	8	18		3
— Lanceanum	5	7		3
barbatum	1	2		
Barkeri	6	1		
[illegible]				
Cavendishianum		11		
crispum	14	5		
cucullatum	2			
excavatum	1	4		
flexuosum	3	5		
leucum		3		
papilio	2	7	1	4
phalaenopsis	13	4		
phymatochilum	3	3	3	
sphacelatum	5	12		3
tigrinum		3		
unguiculatum	1	1		
Spinnei		1		
varicosum		14		
1	22	5		
45	2	1	1	1
Peristeria elata	1	4		
Phajus bicolor	[illegible]			
maculatus	9			
Tankervillia	8		1	
Phalaenopsis grandiflo. 1		1		
— " — 2		1		

	7ss	7ed	gro	Flo. bud.
Pleione lagenaria	2		2	
maculata	3		7	
Wallichiana	5		6	
Rodriguezia secunda	2	4	1	
Sacco labium Blumei typ.		1		
cuneifolium 1		6		
" 2		7		
gigantum		7		1
guttatum		7		
praemorsum		1	5	11
vaginatum		5	7	
Bulger 1				
— " — 15				
Scuticaria Steelii		22		1
Schomburgkia undulata	12	10		4
Jamaica		1	1	
Sobralia macrantha		12	1	
Sophronitis cernua		16		
grandiflora	2	4		
longipetala	20	21	1	1
Stanhopea Devoniana	12	4		
eburnea	14	1	2	
grandiflora	11	9	3	
insignis	16	15		
oculata	15	10	6	
Ruckeri	25	7	4	
tigrina 1	8	11	5	
— " — 2	14	11	4	
Trichopilia lentiglis	12	12	1	
Vanda Batemanni		1		
coerulea		7	2	1
cristata		12	11	
gigantea		10	7	1
suavis		14		
teres		11	6	15 5

				105 Yd gro 1.0 Sm.
Conia hiemalis 1		18	7	
" 2		12		
Hypsepetalum Mackayi	11	6	3	5
crinitum	9	3		

1869. Dec. 14.		lss	lfd	gro	flo	buds	
Acineta Humboldtii	✓	7	1				
Aerides affine roseum			12				
Lobbii 1	✓		9	9	9	9	
odoratum 1	✓			11	6	5	
" 2	✓	24	21	18	15	13	4-8
quinquevulnerum		7	7	7	4		
roseum	✓	10	7	4			
maculosum	✓	8	1	7			
Anactochilus Lowii	✓	4	1				
intermedius	✓	4	4				
argenteus	✓	7	10	5	6	5	4
new, green	✓	2	1	1	1		
Angraecum			6				
Anguloa		4	1	7		5	
Barkeria elegans	✓		2				
Skinneri	✓	18	13		42		
spectabilis	✓	84	3				
Bletia hyacinthoides	✓			15			
Shepherdi	✓	38	10			3	
Burlingtonia decora	✓	5	3		12		
fragrans	✓		4		4		
Brassavola Digbyana	✓	11	11	4			
Brassia Lanceana	✓	7	13	1			
maculata	✓	12	13	4			
Broughtonia sanguinea 1	✓	2	5			4	
" 2	✓	10	2	1			
Bolbophyllum B. 3		4					
" 4							
Bonatea speciosa			10			5	
Calanthe veratrifolia		1	4				
vestita	✓	17			17		
hybrid		2			12		
Cattleya Acklandiæ	✓	5	28				
amethystina	✓	5	10	4			
amethystoglossa	✓	3	4				
citrina	✓	26	13	5		2	
crispa 1	✓	7	32	4			
" 2	✓	4	22	5			
elegans	✓	2	10	1			

ega latiata 1	✓	3	7			
" Low	✓	9	2	2		
intermedia (Leop.)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Leopoldi (Low	✓	13	4			
Loddigesii	✓	14	32			
Mossiæ 1		3	5			
269	✓	3	3			1
53	✓	14	19			3
157		9	21	2		3
Skinneri	✓	4	17			3
superba	✓	2	5			
Trianæ	✓	1	11			2
Dowieana	✓	3	4			
128		3	4			2
225	✓	7	13			3
269 max.	✓	4	5	2		
intermedia T	✓	9	46			4
sp. Stev.		2	8			1
Wallissii	✓	3	9			
Coelogyne cristata	✓	71	39			9
B. 2		3	4			
" 11	dead					
" 12	dead					
" 13		6	3			
Coryanthes	✓	16	2	2		
Cypripedium barbatum	✓		12			
insigne	✓				7	
Stonei			1			
Cyrtopodium Andersoni	✓	1		2		
Cyrtochilum maculatum	✓	2	3			1
Dendrobium aduncum	✓		14			
aggregatum	✓	42	13			
" majus		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
bicolor	✓	49	40			
Cambridgeanum	✓	17		3		
chrysanthum	✓	10		4		
chrysotoxum	✓	14	21			
clavatum	✓	18	3			
Dalhousianum	✓	17	5			
Dayanum	✓	13	2			

densiflorum		16	16				
Devonianum	✓	42		2			
eburneum	✓	31	9				
Farmeri	✓	12	10				
fimbriatum	✓						
formosum gig.	✓	24	3				
heterocarpum	✓	36	2	5	22		
Jenkinsii	✓	45	40				
Kingianum	✓	10	4				
macrophyllum	✓	2	4				
moschatum	✓	15	14				
nobile	✓	6	38			60	
Paxtoni		27	32				
Pierardii	✓	32	42			60	
speciosum	✓	4	5				
tortile	✓	19	5				
Bulger 5							
6							
7							
8							
9				6	Pierardii		
14		4	4				
albosanguineum	✓	22	4				
Disa grandiflora	✓			11			
melalenca	✓			4			
Epidendrum ciliare		8	10				
cinnabarinum	✓	5	5				
crassifolium	✓		35				
erubescens	✓	10		1			
fragrans	✓	13	12		11		
vitellinum		21	15	1			
dichromum	✓	8		2			
Gongora rosea (119		10	6			1	
Hartwegia purpurea	✓	2	12	1			
Helcia sanguinolenta	✓	6	4				
Houlletia Brocklehurst.	✓	2	4	1			
Laliopsis lilacina	✓	2	5			2	

Lelia acuminata	✓	2	12				
albida	✓	8	15			5	
anceps	✓	11	36			5	
autumnalis	✓	2	12		2		
cinnabarina	✓	1	23			4	
majalis	✓	25	8				
Perrinii	✓	11	36				
purpurata	✓	2	36	5		2	
superbiens	✓	1	2				
85	✓	7	16				
Leptotes bicolor	✓		53			12	
Limatodis rosea	✓	15			25		
Lycaste aromatica	✓	3	3				
cruenta		3	1				
Harrisonia	✓	33	34				
Skinneri 1	✓	7	5			5	
" 122		25	9			11	
Maxillaria graminea	✓	4		8			
Mesospinidium sanguineum	✓	12	5	5	8		
Miltonia candida	✓	3	4				
Clowesii	✓	5	6	4			
Moreliana	✓	2	11	1			
spectabilis	✓		8	4			
Odontoglossum citrosmum	✓	13	7				
— " roseum		13	13				
grande 1	✓	9	20				
" 2	✓	5	9				
hastilabium			2				
gloriosum							
Hallii	✓	12	2	1	1		
Insleayi	✓						
coronarium	✓	5	4				
maculatum	✓	21	20			9	
Alexandræ	✓	2	1	1			
phalænopsis	✓	11	2				
nebulosum	✓	14	14	5	3		
pulchellum	✓	4	2				

cont. Pescatorei							
triumphans 1		3	1	1			
— " — 2							
80		5	7	2			
169		1	4	5			
2		1	1	2			
from 4		4	2	1			
6		11	11				
Oncidium altissimum 1	✓	1	24	3		5	
— " — Lawrenceanum	✓	8	12				
barbatum	✓	17	12	9			
Barkeri	✓	1	2		5		
Cavendishianum	✓		2		1		
crispum	✓	12	5				
cucullatum		2	1				
excavatum	✓	6	3				
flexuosum	✓	1	3				
luridum	✓		1				
papilio	✓	17	20			4	
phalænopsis	✓	10	3	2			
rhipsalis	✓	5	3	3			
sphacelatum	✓	8	16			1	
triquetrum	✓		1				
unguiculatum		4	1				
Sprucei	✓		1				
microchilum	✓	2	11				
112		1	4				
43	✓	2	2			1	
Peristeria elata	✓	1	3				
Phajus maculatus	✓	2	1	1			
Tankervillæ	✓	3	3			1	
Phalænopsis grandiflo 1	✓		1				
— " — 2	✓						
Pleione lagenaria				2			
maculata	✓	7		11			
Wallichiana	✓	1		1			
Wallichii ?		12		12			

Lodiguezia secunda	✓	2	4				
Saccolabium Blumei D.	✓		1				
curvifolium 1	✓		1				
" 2			10				
giganteum	✓		7			1	
guttatum	✓		1				
premorsum	✓		5	6	3	4	
ampullaceum	✓		7	6		3	
(Butger 15	✓		4				
Scuticaria Steelii	✓		32	1			
Schomburgkia undulata		15	18			4	
(Jamaica)	✓	42	20	3			Dubia
Sobralia macrantha	✓		26	1			
Sophronitis cernua	✓	1	12				
grandiflora	✓	2	7				
longifolia	✓	16	18	11	8		
— " — 2		50	34	15			
Stanhopea Devoniana	✓	12	4				
oculata	✓	17	9	2			
Ruckeri	✓	10	2	1			
Trichopilia tortilis	✓	11	13			3	
Vanda Batemanni			6				
caerulea			1	3			
cristata		11	10	9			
aizantea	✓	8	7	6	5	3	1 buds
suavis 1	✓		9				
Vand-L	✓						
teres	✓		13	12	10	1	5 2
bicolor 1	✓	20	3	3			
2	✓	10					
3	✓						
4	✓	4					
Trichopetalum Lackaji		16	3	4	5		
crinitum		14	2				

Mossiæ var.

Cattleya lactea. Nearly pure white.

Carnea. Flesh col.?; lip throat fulvous; confluent crimson veins. Large.

Vanda suavis 1
" - Witch
tricolor 1
" 2
" 3
gigantea
teres
caerulea
cristata
Roxburghii
Batemanni
Bulger 15
V
a. 142. 1
c. 149. a
g. c

Sarcanthus crinaceus
"

Aerides odoratum 1
" 2
roseum
Lobbii
maculosum

Saccolabium guttatum
prænorsum
gigantenum
Blumei Lowi
ampullaceum
curvifolium

verbes a. i. 142	—	6			
Broughtonia 2	12	1	4		
Calogyne ? 186					
a. f. 142		1			
Cypriped. barbatum (Morse		3			
concolor		10	7		
Stonei		1			
Dendr. Cambridg. 2	[illegible]	[illegible]	16	[illegible]	
— " — 142	—	"			
chrysotoxum 2	[illegible]	[illegible]	16	[illegible]	
crepidatum	6	2			
barbatulum	5	2			
densiflorum 188	25	6			
— " — 217	13	3			
dixanthum	18				
Egertoni	3	1			
Falconeri		15			
formosum	[illegible]	[illegible]	[illegible]	[illegible]	
Gibsoni	28	38			
heterocarp. ? 142	5				
nodatum	32	12	8		
secundum	15	8			
sulcatum	8	2			
Williamsoni	1	1			
a. 72	39	3			
" c. 142	1	1			
" d 142		1			
b. 195	10		35		
" 157	31	101			
c. e. 149	11				
d. b. 118	9	2			
Epidendr. rhizophorum		1			
Lælia crispilabia	1	1	1		
albida ? e	1	3			
Maxillaria densa	3	3		17	
venusta	5	7	2		
Oncid. filipes	21	1			
Krameriānum	6	5			
macropetalum	13	1			
sphacelat. (Tufnell)	1	1			

Utricaria Stellii 2					
Sophronitis ? d.	3	2			
Tufnell 1	4	5			
2	2	2			
3	1	3			
4					
5	3	4			
Vanda gigantea ?					
Roxburghii		13			
suavis (Veitch		1			
a. j. 142.					
c. a. 149.		3	2	1	
a. h. 142.	3	1			
173	4	3	7		
c. b. 149. (Bolbophyll.	4				
c. " (Cymbidium	2	3	1		
. 274. (Odontogloss.	7				
" (Cœlogyne					
e. a. Stanhopea	44	1	3		
b. "	13		16		
c. "	2	1	1		
d. Oncidium	3	10			
e. Epidendrum	13	6	1		
g. Coryanthes	6		1		
i.	4		1		
j.	1		2		
k.	21		24		
m.					
n. Maxillaria	3		1		
Epidendr. eburneum	1	1	7		3

1867. Dec.

	lss.	lfd.	gro:	flo.
Acineta Humboldtii	5	2		
Aerides affine roseum				12
Lobbii	[illegible]	[illegible]	[illegible]	[illegible]
odoratum 1.	7	[illegible]	17	13
— " — 2	[illegible]	22	12	[illegible]
quinquevuln.	4	7	6	6
roseum	3	[illegible]	11	8
suavissimum	[illegible]	14	[illegible]	[illegible]
maculosum	5	7	8	7
Angræcum	[illegible]	[illegible]	[illegible]	[illegible]
× Angulo a	34	12	1	
Ansellia Natalensis	5	13	[illegible]	[illegible]
Barkeria Skinneri 1	[illegible]	[illegible]	[illegible]	[illegible]
× " 2	[illegible]	10		
× spectabilis	22	17	[illegible]	[illegible]
Bletia hyacinthina	[illegible]	[illegible]	7	
Shepherdii	23	11	[illegible]	[illegible]
× Bolbophyllum B 3.	3	5		
× " 4				
× Bonatea speciosa		10	[illegible]	[illegible]
Brasavola nodosa	[illegible]	7		
grandiflora	7	2	[illegible]	
× Digbyana	4	2	5	2
Brassia Lanceana	8	10	4	
maculata	4	[illegible]	2	2
Broughtonia sanguinea	2	4		
Burlingtonia decora	6	24	1	
Batemanniana	4	[illegible]	2	
Calanthe veratrifolia	7	5		
vestita	16	[illegible]	[illegible]	5
× discolor	[illegible]			

Cattleya Aclandiæ
amethystina
amethystoglossa
citrina 1
" 2
crispa 1
" 2
elegans
Forbesii
labiata
Leopoldi
Loddigesii
maxima B.
" — L.
Mossiæ
Skinneri
superba
Trianæi
Dowiana
7
sp. Stev.
× 128
× 225
× 269 max.
× 269 Mossiæ
× 53 Mossiæ
× 157 2 Mossiæ
× 151 formila
× 157
Celogyne cristata 1
× B 2.
× .12
× .11
× .13

Catasetum tridentata
Chysis bractescens
× Coryanthes
× Cymbidium aloifolium
gigantenum
Cypripedium barbatum
caudatum
insigne
× venustum
acaule
calceolus
spectabile
Cyrtochilum maculatum
Cyrtopodium Andersoni
Dendrobium aduncum
aggregatum 1
× " 2
" majus 1
× " " 2
bicolor
Cambriscanum
chrysanthum
chrysotoxum
clavatum
Daltonsianum
Dayanum
densiflorum
Devonianum
eburneum
Farmeri
fimbriatum
formosum gig.
heterocarpum
Jenkinsii
Kingianum
macrophyll. gig.
moschatum

Dend. nobile 1
" 2
Paxtoni
Pierardi 1
" 2
× pulchellum
speciosum
tortile ros.
× Bulger 5
× " 6
× " 7
× " 8
× " 9
" 10
Disa grandiflora
× melanea
Epidendrum atropurpureum
× ciliare
cinnabarinum
× cochleatum
crassifolium
erubescens
fragrans
macrochilum
× odoratissimum
vitellinum 1
× — " 2
× Bulger 14.
× Gongora maculata fusca
— " — Trailii
× 119.
× Govenia lilacina
Hartwegia purpurea
Helcia sanguinolenta

Houlletia Brocklehurst.
Lelia acuminata
albida
anceps
autumnalis
cinnabarina
majalis 1
× " 2
Perrinii
purpurata
superbiens
× 85
Laliopsis lilacina
Leptotes bicolor
× tenuis
Limatodes rosea
Lycaste aromatica
× cruenta
Harrisonia
Skinneri 1
× — " — 122
Maxillaria graminea
Mesospinidium sanguineum
Miltonia candida
Clowesii
Moreliana
spectabilis
Odontoglossum citrosmum
— " — rosseum
grande 1
— " — 2
hastilabium
Insleayi 1
× — " — 77

	Odontogl. nebulosum	12	1	3		
×	pulchellum	1				
×	Hallii	2	1	1		
×	Pescatorei	3				
×	triumphans 1	1				
×	— " — 2	1				
×	gloriosum	1		2		
×	80 —	3		9		
×	169 —	1		1		
×	1 —	1		1		
×	2 —	1	1	1		
×	3 —	5	4	1		
×	4 —	1	1			
×	5 —	12	15	3	1	
×	6 —	5	11	2		
×	7 —					
×	coronarium	8				
	Oncidium altissimum 1	3	3	4		
	— " — Lawrenc.	6	10	2	2	
	barbatum	3	3		×	
	bicallosum	1	1	1		
	Cavendishian. 1		1		×	
×	— " — 2		1			
	Cebolleta 1		10			
	— " — 2		1			
×	crispum 1	1				
×	— " — 2	1	3			
	cucullatum	1	1	1		
	excavatum	4	8	1		
	flexuosum	1	3	1		
	luridum		2			
	papilio	3	20	2	4	
	phalaenopsis	3	4	1		
×	rhizopalis	2	1	1		
	sphacelatum	7	9	2		
	triguetrum	—	2		1	
	unguiculatum	1				

	Oncidium Sprucei —	10	10	2	1	
	Barkeri	2	1			
	γ —		17			
×	112 —	12	11			
×	43 —	1		1		
	Peristeria elata —	1	1			
	Phajus bicolor —	2	1			
	maculatus	7	1	1		
	Tankervillia	1	8	3	1	
	Phalaenopsis grandifl. 1	1				
	— " — 2		1			
	Pleione lagenaria	1		1		
	maculata	1		1		
	Wallichiana	1		1		
	Rodriguezia secunda	5	1			
	Saccolabium Blumei 2.	1				
	curvifolium 1	1				
×	— " — 2					
	guttatum	1				
	premorsum	1				
×	giganteum	1				
×	— " — Balger 1	1				
×	Balger 15	1				
×	Sarcopodium Sobbii	3	1	1		
	Schomburgkia Tamaia	1	1	2		
	Sara	11	11		3	
	Scuticaria Steelii —		11	1	1	
	Sobralia macrantha		1			
	Sophronitis cernua	1				
	grandiflora	1	3		×	
	longifolia	19	21	11		
×	Stanhopea Devoniana		1			
×	eburnea (W)	19	11	1		
×	grandiflora	15	9	5		

Stanhopea insignis
oculata
Ruckeri
ligrina 1
— " — 2
Trichopilia tortilis
Vanda Batemanni
caerulea 1
— " — 2
cristata
gigantea
suavis
teres
tricolor 1
— " — 2
Dysopetalum Mackayi
crinitum

1872				
Aug. 26.	Cal. seedling.		2	
Nov 16.	Cal } Lim } 2 Sandhurstiana			22
1873	C. Sandh.	2		
Mar 6.	C. Chuldl.	2		
	C. Seedling	1		

Calanthe hybrids.

1865

Dec. 19. Impregn.? Cal. vest. × Lein. 105
Lein. r. × Cal. v.

1866. Apl. 4. Pod of Lein. r. dehisced

Dec. 12. Found a seedling bulb. Potted it.

1868

March 4. 7 lbs Bulbs planted. Cal. v ♀ Lein. r ♂ seedlings

July 72	"	1	
Sept 30	"		36
1872			
Feb. 27	"	1	
June 24	"	1	
Oct 11	"		58

Illustration of Sec. Sign.

This sign is the closing of the thickened column round the [illegible], which becomes imbedded in it substance.

Another sign too impregn.d by Sacc. ampull. at 7.30 A.M. of the March, on being exam.d 3 hours after, showed the col. swollen & [illegible] increase very decidedly. [illegible]

---

hirsutissim. Cypripedium. barbatum.

m. sligness.

m. sligness.

Opposite the Church.

St. Mary Church, near Torquay.

Mr. Henry Castell,

Begs respectfully to inform the Gentry and Inhabitants of the surrounding Neighbourhood, that he has commenced Business as a

Dispensing & Family Chemist,

at the above address; and, in soliciting Patronage, he hopes that, by unremitting assiduity and personal attendance,---combined with experience; and keeping a genuine Stock of Articles, to obtain confidence and ensure satisfaction.

The Dispensing Department--especially--will ever have strict care and attention paid to its importance; and pure Drugs and Preparations always be used.

[Please turn over.

H. C. begs to call your attention to the following Articles, and select Preparations:—

CASTELL'S DIGESTIVE OR DINNER PILLS.

These Pills are made from the recipe of a celebrated Physician, and are generally calculated to improve the tone of the Stomach.

FAMILY APERIENT OR ANTIBILIOUS PILLS.

A useful and really effective family medicine.

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A milder preparation than the former, purely the extract of Vegetables, and as a family medicine, may be given to children or ladies of the most delicate constitutions.

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Containing all the active properties of the Bark, in a convenient form.

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TOILET VINEGAR	CASTOR OIL POMADE
LAVENDER WATER	CIRCASSIAN CREAM
OTTO OF ROSE COLD CREAM	EXTRACT OF ROSEMARY
LIP SALVE	SPONGES AND SPONGE BAGS
CAMPHORATED DENTRIFICE	PRICE'S PURE GLYCERINE

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TOOTH, NAIL, & HAIR BRUSHES.

GENUINE PATENT MEDICINES.

Printed at the Office of J. Castell, Daventry.

1

2

1850

June 6.

Sept 18. All divisions of

Dec 1.

Jan 1.

1856

June 1.

1860

Jan 18. Poll.

15000 tickets

6 a. May 16. 1864

1866

March 15. A growth up.

[illegible]

[illegible]

[illegible]

a

b

Vanda gigantea, artificially impregnated with another flower of the same, March 13. 1871.

It quickly formed a large, rod, of the size & form of a, wh. became of an uniform dull fulvous yellow slightly stained & speckled with brown.

Dehisced, by one suture, on the lower side, on April 19th 1872, scattering a very fine dust of yellow seed, some pubescence protruding, laterally from the suture.

Fully 99 per cent of the seed fertile: small (b) a truncate spindle, the tunic closely plaited spirally; embryo nearly filling, pellucid, yellow. On water-contact, "think" saw in a few instances, a suspensor scarcely protruding.

We sowed the seed on the moss surface of its own pot.

Date	Male	Female	Suc.	Ripe	
1864.					
May 18	Bletia Shepherdi	Calanthe veratrifolia	—	———	Lowest fl.
19	Cattleya Mossiæ 2	Cymbid. aloifolium			Lowest left.
	Cattleya Mossiæ 2	Laliopsis lilacina		Aug. 6/64	wool
24	Oncidium luridum	Onc. flexuosum		———	wool
	Oncidium flexuosum	Onc. luridum		died	wool. Lowest.
26	Calanthe veratrifol.	Bletia Shepherdii	—	———	lowest on short spike
	Bletia Shepherdii	Calanthe veratrifol.	O	25. June	6th from bott.
30	Broughtonia sang.	Laliopsis lilacina		Aug 6/64	blue 4th. Knead.
Nov. 15	Lælia Perrinnii	Self			
1865					
Dec. 19	Calanthe vestita	Limatodis rosea	O	Apr. 4/66	Lowest, 1. on 1st spike
	Limatodis rosea	Calanthe vestita	O	Jan. 29/66	do. " do.
1866					
Sept 15	Oncidium papilio	Self	—	———	
Dec. 13	Lælia autumnalis	Cattleya Loddigesii			No 1.
	Cattleya labiata	Cattleya Loddigesii			2.
	Lælia autumnalis	Cattleya labiata			3
	Lycaste Skinneri	Self			Lower flower.
1867					
May 25	Acrides odoratum l.	Acrides suavissimum	O		Terminal blossom.
June 1	Lycaste Harrisonia	Lycaste aromatica	—	———	paper disk on stalk
	Lycaste aromatica	Lycaste Harrisonia	—	———	sep. & lip cut-off
25	Cattleya citrina	Lælia purpurata	O	Dec. 30/67	lowest flower
Dec. 14	Limatodis rosea	Cacuisne vestita	O	Stalks rotted	tied with bast
1868					
Jan. 24	do.	do.			
[illegible]	do.	do.			
[illegible]	[illegible]	[illegible]			
1870					
Mar. 21	Anacheilus Sowi	Anacheilus [illegible]	O	Apr. 14.	
1871					
Jan. 20	Epid. [illegible]	Barnesia Skinneri	O	July 25	Sowed.
	Barn. Skinneri	Epid. [illegible]	—	———	
	Lælia albida	Lælia [illegible]	O	[illegible]	
	Calanthe vestita	Cal. Cheesemanii	O	Apr. 14	
	C. Cheesemanii	Cal. vestita	—	———	
	Lycop. Mackayi	Lycaste Skinneri	O	died	
Mar. 6	Laliopsis lilacina	Broughtonia sang.	—	died	
	Dend. albo-sanguin.	Dendrob. nobile	—	———	bast
7	— " — fimbriatum	Ditto	—	died	[illegible]
8	Lycaste Skinneri	Lycaste Skinneri	O	Feb. 11. 72	dehisced
11	Bletia hyacinthina	Calanthe vestita	—	nil	
13	Vanda gigantea	Vanda gigantea	O	Apr. 19. 72	dehisced. scale.
	Cattleya guadicolor	Epid. crassifolium	—	nil	
	Dendr. Dayanum	Dendr. nobile	—	nil	
	Dend. aggregatum	Dendr. Dayanum	—	nil	

Date	Male	Female	Succ.	Ripe	
1871 Nov. 13	Oncid. papilio	Oncid. altissimum	.	nil	
	Dend. macrophyll.	Dend. eburneum	O	—	
	" macrophyllum	" Pierardii	O	8 Jan 2	Sowed mid. glass.
15	Rodrig. secunda	Rodr. secunda	—	nil	
17	Den. chrysotoxum	Den. Dayanum	—	nil	
20	Cypr. concolor	Cypr. concolor	—	nil	
	Oncid. amplatum	Oncid. altissimum	—	nil	
	Dend. macrophyll.	Dend. Pierardii	—	nil	
23	Vacol. impell.	Vanda gigantea	.		
29	Dend. densiflorum	Dend. Dayanum	.		
31	Brought. sanguin.	Cattleya intermedia	O	Sep. 16.	Sowed mid. glass.
Jan. 1	Dend. densiflorum	Den. nobile	—		
5	Oncid. amplatum	Brassia maculata	.		
	N. El. pagnell. A. 173	nil	O		
Mar. 1	Cattleya citrina	Cattleya intermedia	O	Feb. 17/72	Dehiss. see 4. Sowed.
Jun. 6 1872	Saccol. nemorsum?	Sacc. nemorsum	O		Seip. imprégn. a insect.
Mar. 11	Cypriped. Stonehea	Cypripe. barbatum			2 flowers.
	Dend. Cambridgean.	Den. nobile			

Orchids impregnated.

Date	Male	Female	Succes	Ripe	
1863 Mar 20	Dendr. nobile	Self	O	Mr. 22/4	
	Cypripe. venustum	Self	O	Jan 3, 4	
23	Tonopsis, tanicul.	Self	—		
25	Epid. aurantiacum	Self	O	Aug. 4/4	
30	Dend. densiflorum	Self	—		
Apr 16	Maxill. Harisonice	Self	—		
Oct 7	Zygopet. Mackaii	Cymbid. giganteum	O	died	
	Cymbid. giganteum	Zygopet. Mackaii	O		
14	Cymbid. giganteum	Self	O	Jan. 23, 65	
Nov 30	Calogyne speciosa	Calanthe vestita	—		
	Calanthe vestita	Calogyne speciosa	O	cut off by mistake	
1864. April 4	Dendr. Pierardi	Leptotes bicolor	O	Oct. 26/4	
	Leptotes bicolor	Dendr. Pierardi	O		
15	Den. Pierardi	Dendr. densiflor.	—		
	Dend. densiflorum	Dend. Pierardi	O		
	Cymbid. aloifolium	Oncid. altissimum	—		
	Oncid. altissimum	Cymbid. aloifolium	O	Aug. 7, 4	empty; mouldy within
May 11	Cypripe. barbatum gr.	Cypripe. insigne	O	Jan. 11/5	
	Cypripe. insigne	Cypripe. barbatum gr.	O	Dec 22/4	
18	Calanthe veratrifol.	Cymbid. aloifolium	—		Lowest bud one
	~~Cymbid. aloifolium~~				

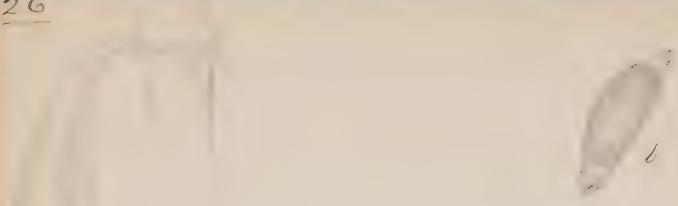
Date	Male	Female	Succ.	Ripe	
1874.					
May 29	Cattl. citrina	Sobralia macranth.			
	Brugt. sanq. [illegible]	Sep. plant. [illegible]			
	Lyc. aromatica	Max. graminea			
	Max. graminea	Lyc. aromatica			
Jun 2	Catt. Warscewi	Dru. Dichroa	O	15.2.75	
	Sto. sanguinea	Lel. cinnabar.			
	Trich. coccinea	Phaius maur.			
	Den. Devonian.	D. chrysanthum			
	Max. graminea	Scut. Moelii	O	[illegible]	
1875 Jan. 18	[illegible]	[illegible]			
	Odont. grande	Odont. grande	O	12.1.76	Eject.d in pr.
1875 Jan. 6	Cel. vestita rub.	Cel. Sanderiana			
	C. Sanderiana	Cel. vestita rub.	O	5.4.75	[illegible]

Date	Male	Female	Succ.	Ripe	
1874 April 17	Dens. Dayanum	D. lituiflorum			
	D. lituiflorum	D. Dayanum			
	D. Dayanum	D. Sieraardii (on board			
20	D. Dayanum	D. Bathusianum			
	D. Bathusianum	D. Dayanum			
	D. aggregatum	D. Fowerii			
	D. Fowerii	D. aggregatum			
20	Cattleya Skinneri	Self (anc. flo.)			
22	Dend. Dayanum	Dend. fimbriat. var.			
	D. Bathusianum	D. fimbriat. var.			
	D. chrysanthum	D. fimbriat. var.			
26	Phaid. sarcodes	Ph. amplicaule			
	Ph. amplicaule	Ph. sarcodes			
27	D. lituiflorum	D. Bathusianum			
	D. Bathusianum	Self (anc. flo.)			
	D. fimbriatum var.	D. Bathusianum			
28	D. aggregatum	D. Sieraardii (pl. t. 14)			
	Lyc. Harrisonia	Self (anc. flo.			
May 1	Saccol. curvifolium	Sacc. ampullaceum			
	Sacc. ampullaceum	Sacc. curvifolium			
5	Odont. citrosmum	Odont. cl. Hallii	O	13.10.74	in fertile
	Odont. citrosmum	Odont. lace			
	Odont. Hallii	Odont. lace			
	Odont. Hallii	Odont. citrosmum			
	Odont. lace	Odont. Hallii			
	Odont. citrosmum	Trichop. cornutum			
7	Odont. citrosmum	Self (at. pr. spike)	O	10.5.75	
	Onc. amplicaule	Self (at. spike)		9.7.74	Hastings 1.1.3.74
	Dend. lituiflorum	Self (at. flo.)			
	Cyrtopod. andersoni	Self (at. spike)			
8	Onc. amplicaule	Onc. amplicaule			
	Onc. amplicaule	Onc. amplicaule			
29	Epid. macrochil. var.	Epid. liceranthum	O	1.9.74	infertile
	Epid. liceranthum	E. macrochil. var.			
	Epid. liceranthum	Brought. sanguinea			
	Brought. sanguinea	Epid. liceranthum	O	5.9.74	infertile
	Epid. macrochil. var.	Cattleya citrina	O	15.2.75	
	Cattleya citrina	Cattleya elegans	O	7.11.77	

Date	Male	Female	Succ.	Ripe
1874. March 16	Dend. Cambridgeanum	Dend. nobile		Apr. 21 pr. shriveled.
17	"	" "	—	
21	Sarcop. Henshallii	Self. (another flower	—	
	Vanda tricolor 1	Vanda tricolor 2		Oct. 15. 75 Scott. [illegible]
	Catasetum discolor	Cat. disc. (anot. flower	—	
23	Cyprip. hirsutiss.	Cyprip. barbatum		
	Cyprip. hirsutiss.	Self. (same flower		
	Cattl. quadricolor	Epid. eburneum	—	
24	Dend. albo-sanguin.	Dend. fimbriatum		
	Oncid. Kramerian.	Oncid. altissimum	—	
25	Dend. aggregatum	Dend. fimbriatum	—	
	Vanda tricolor 1.	Vanda gigantea		Oct. 15. 75 Scott. [illegible]
27	Dend. Cambridgean.	Dend. macrophyll.		
	" albo-sanguin.	" eburneum		
28	" macrophyllum 1	" nobile		
	Cattl. quadricolor	Self. (al. & id. flo.)		4. 10. 74 Dehiscend. all mere tunics
Apr. 1	Burlingt. fragrans	Rodriguez. secunda.	—	
	Laliop. lilacina	Ep. macr. castum		
	Ep. macr. castum	Laliops. lilacina.		15. 7. 74 All mere tunics
5	Sycaste Skinneri	Syc. Harrisonia		
	Syc. Harrisonia	Syc. Skinneri		
	Dend. Farmeri	Den. chrysotoxum	—	
	D. chrysotoxum	Dend. Farmeri		
9	Onc. ampliatum	Onc. altissimum		
	Onc. altissimum	Onc. ampliatum		
	Dend. albo-sanguin.	D. nobile (on tree)		
	D. nobile (on tree)	D. albo-sanguinum		
17	D. linifloruin	D. macrophyllum	—	

Orchids impregnated.

Date	Male	Female	Success	Ripe	
1872 Mar. 11	Cyprip. Hookerae	Cyp. barbatum			2 Flowers
	Dend. Cambridg.	Dend. nobile	O		
Apr. 8	Dend. Dalhousi.	Dend. Dayanum	—		
	Dend. albosang.	Dend. macrophyll.	—		
	Dend. Dalhous.	Dend. eburneum	O		
16	Bletia Shepherdi	Epid. macrochilum	O		
May 5	Cyprip. niveum	Cyprip. barbatum	O	Dec. 5 72	[illegible]
	Dend. Dalhousian.	Dend. moschatum	O		[illegible]
	Bletia Shepherdi	Ble. Shepherdi	O	Jan. 1 73	
6	Trichop. coccinea	Cattl. intermedia	O		
	Dend. moschatum	Dendr. tortile			
	Cattl. intermedia	Sobralia macranth.	O	Dec. 1 72	[illegible]
	Bletia Sheph.	Sobralia macrantha		broken off	
8	Cyprip. niveum	Cypr. Hookerae			
15	Epid. cinnabarin.	Epid. crassifolium			
20	Dend. transparens	D. Devonianum			
	Sobralia macr.	Sobr. macrantha	O	Dec. 1 72	[illegible]
23	Cattl. amethystina	Epid. macrochilum			
	Ibid.	Bonatonia sang.			
	Ibid.	Trichopilia coccin.			
25	Cyprip. Stonei	Cyp. barbat. gr. flo.			
	Cyp. barbat. gr. flo.	Cyprip. niveum			
June 10	Cattleya elegans	Brasav. Digbyana			
1873 Feb. 5	Cypr. hirsutiss.	Cypr. insigne	—		Pollinia in the disk of the lower stamen, in front of the stigma
	insigne	" hirsutissim.	—		
27	Dend. eburneum	Dend. nobile	O		
[illegible]	" fimbriatum	" nobile	—		
	Cattleya Triana	Epid. dichromum	O	19.12.74.	



Sandersonia aurantiaca.

On May 9. 1874 I bought at Sessons's a plant named as above, said to be just imported from Natal. From one of the bulbs hung 3 fruits, stuck together, nearly mature. Color pale Succession pink. They were full yellow-green of form & size as (a). On the 25th of the same month I found two of them dehisced & showing abundance of rich yellow dust-like seed; - wh. under ½ inch Microscope showed as (b); - the form very uniform, apparently every one fertile, yellow with the plump embryo. Water being applied never reached the stigmatic surface. I immediately sowed it in a mixture of fibrous peat, in a pot in the Stove house.

Oncidium ampliatum.

impregn. by a flower of another spike of the same plant, May 7th 1874.
July 9th pod dehisced. Seed dust-like, scattered freely. In several hundreds under the microscope, I could not see one that was not fertile. The form is short stout, sub-ovate, with one end truncate, the other contracted to a knot. Testa coarse, pleated, regularly spirally arranged. The embryo in each was full, clearly translucent, pale green. The suspensor was not protruded when w[illegible] d.

I scattered the seed on various parts of the cork-slab on which the parent plant is fastened.

Oct. 3. Six fine young plants, evidently seedlings, not of the usual form, on the cork slab. Three are growing so close together, as to seem but one 3-bulbed plant.
Each has main 3 or 4 leaves, with a short succulent stem, wh. at base, was a stolon but not compressed, as in the adult. One had thrown out a short root, some high up the stem. (a) There are 2 other

27a.

similar plants, growing each solitary at some distance from the others, each much smaller, & less advanced.

No. 5 & those last two, have one by one disappeared. No. 3 appears healthy.

1875.

Oct. 10. All the preceding [illegible] [illegible] [illegible] [illegible] the plant [illegible] [illegible] [illegible] [illegible] figured [illegible] No. 7. There is another of the same [illegible] as the former, but [illegible] [illegible] [illegible] [illegible]. At some distance there is apparently one quite large, but the [illegible] is hidden among the [illegible] of the [illegible].

[illegible]	4.	[illegible]	10. 5
[illegible]		[illegible]	1. 5
D. Pier.	3. 6	Trills	5. 6
D. [illegible]	8. 6	Lord	
[illegible]		[illegible]	14.
[illegible]	1. 1.	Pain	5.
Sla. [illegible]		[illegible]	9. 0.
[illegible]	3. 6	Hebbes	9. 2
[illegible]	3. 6	Jeffries	1. 7. 1
[illegible]	5	Jackson	6. 1. 6
[illegible]	2. 6	[illegible]	1. 6
V. [illegible]	5		
[illegible]	3. 6		88. 5.
[illegible]	3 6		
[illegible]			
[illegible]			
[illegible]	5.		
[illegible]			
[illegible]			
[illegible]			
Mat.	5		
[illegible]			
[illegible]	3. 19. 6		
	16. 5.		

What do you think of Owen position
in the Exeter Hall Lectures?

Cattleya Trianæ ♂.
Epid. dichromum ♀.

Impregnated March 27th this year 1874

[illegible] with water [illegible] balance, which is [illegible] mediately [illegible] Chandler & Miller [illegible] of the pod in a piece of [illegible] of book [illegible] the slips of [illegible] in the [illegible]

1874

28

a. Cattle

Cattle

Inspecting & Slaughtering

[illegible]

[illegible]

[illegible]

[illegible]

ULTURE

rden Magazine

S • KENMORE 6-9280

e magazine devoted
The articles each
g "well groomed".

e — covers all

a. Cattleya elegans ♀
Cattleya citrina ♂
Imported May 7, 1874. Flowered July, 74.

Above 10 bulbs, the plants being 2 to 3 ft. high, in pots with water rush for the surface, but [illegible] the bulbs [illegible] peat, pathreda [illegible]

Professor Reichenbach's Orchideenkunde Central Amerikas: 4to.

Poland St. Marlboro St.

Sam, Sir

D. A. Hoyt Esq
Norwich

Yrs Obed Sy

J. Mundle

Sec.y

ch Union Fire Insurance Soc

Surrey Street, L

13th N

g to inform you that an Extraordinary Cou

Registry's Offices as above, on Tuesday, the 26t

(from Book 1868

1865	Jss	Jsa	gr	flo.	
Calanthe discolor					
Disa grandifl.					
Phalaenop. grandif. 1					
Chysis bractescens					
Cattleya superba					
Lycaste aromatica					
Cattleya sp.?					
Vanda suavis					
Saccol. guttatum					
Brassia Wrayae					
Oncid. unguiculatum					
Anselia Natal.					
Odontogl. Insleayi					
Epid. vitellinum 1					x
Oncid. excavatum					
Dendr. aggregatum					
" Jenkinsii					
Bolbophyl. Lobbi					
Burlingt. decora					
Oncid. Lawrenceanum					
Aerides odor. 2					
Oncid. bicallosum					
Sobralia macr.					
Phajus maculatus					
" bicolor					
Odontog. grande Sk.					

	Iss	Ifd	gr.	fl.						
Odonty. pulchellum	12	3				Cattleya labiata	5	13	3	
Barkeria Skinn.						Vanda caerulea				
-"- spectabilis						Aerides affine				
Epid. vitellin. Sk.	8	3		3		-"- suavissim.				
Hartwegia purp.						Phalaen. grandifl.	2			
Cattleya Trianei						Sacol. Blumei D.				
-"- elegans -						Vanda tricolor 2				
Gorenia superba										
Aerides Lobbi										
Saccolab. curvifo.										
Dendro. macrophy.										
Lycaste Skinneri										
Sophron. cerina										
Dendr. bicolor										
-"- Dayanum	6									
-"- Dalhousian.										
Neottia speciosa										
Oncid. barbatum	3	3								
-"- tigrinum										
-"- Cavendishe.										
Leptotes tenuis										
Lelia anceps 2										
-"- cinnabarina										
Epid. cinnabar.										
Milt. Moreliana										

Dec. 26. 1865.

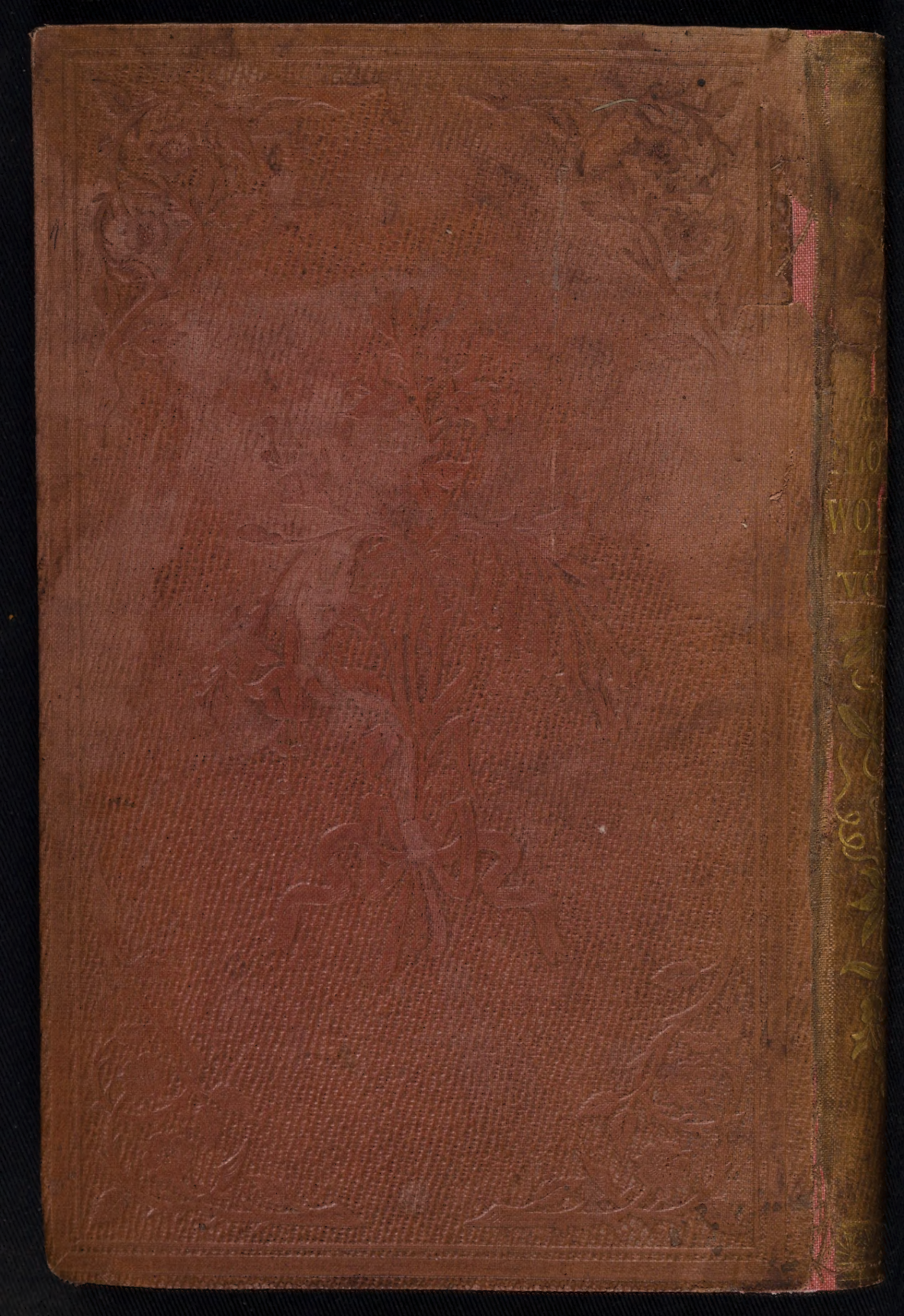
	Iss	1/a	9/0	fl.	
Aerides odor. 1					
Calanthe vestita					
Coelogyne speciosa					
Cattleya crispa 1					
— " — Forbesii					
— " — Mossiae 1					
Cypip. insigne					
— " — venustum					
Dendr. densiflor.					
— " — moschatum					
— " — nobile 1					
— " — pulchellum					
Miltonia spect.					
Odontog. grande 1					
Oncidium flexuosum					
— " — papilio 1					
Phajus Tankerv.					
Stanhopea insignis (gr.					
— " — insignis					
Zygopet. Mackaii					
Vanda teres —					
Phajus Wallichii					
Epidend. ciliare					
Dendr. Pierardi 1					
Calia Bowerana					
Calia albida —					
Gmtrd. aloifolia					

	Jss	Jfd	gro	fl.
Dend. speciosum	12	10		12
Lycaste "Skinn." 1				
Cyprip. barbatum				
Cymbid. giganteum	3	4	1	4
Cattleya Loddigesii		1		
Calanthe vereciifolia		3		
Max. Harrisonia				
Oncid. γ ("Jacksonii")				
Milt. Clowesii	4			
Oncid. E				
Stanh. oculata	1	3		
" tigrina	2			
Dendr. nosch. 2				
" nobile grand.				
Stanh. Devonien.				
Oncid altissim.				
Epid. ovulum				
Lalia ϑ				
Catasetum 6				
Stanh. grandiflr. 13				
" 14				
Epid. [illegible]				
" odoratissim.				
Rodrig. secunda				
Brassia Lanceana				
Gongora niac. fusca				
Stagn. albus				
Lalia purpurata				

	Jss	Jfd	g.	f.
Lalia Perrinii		11		
Cyrtopodium And.				
Epid. aurantiac.		6		
Cyrtoch. macul.	3	2		
Oncid. spacel.				
Stanh. Ruckeri		8		
" oculata V.				
Trichosp. tortile				
Oncid. Lanceanum				
Bragkt. sanguis.				
Laeliopsis lilacina		12		
Brasavola nodosa				
" cordata				
" 3				
Bletia Shepherdi				
Epid. fragrans		10		
Schomburgkia Jam.		8		
Oncid. luridum				
Gongora Fr.				
Epid. crassifol.				
Brasav. Digby.		12		
Stanh. tigrina Fr.				
Dendr. Pierardi 2				
" Paxtonii		12		
Cattleya amethyst.				
Leptotes bicolor				

	Iss	I/d	g	f.	
Limatodes rosea					
Dendr. Farmeri					
Oncid. papr.° maj.					
— " — crispum					
Vanda gigantea					
Schomb. Para					
Vanda tricolor /					
Cattleya citrina					
— " — Leopoldi					
— " — ♂					
Angraecum					
Catt. Mossiae sup.					
Dendr. Kingian.					
Milt. candida					
Max. graminea					
Lycaste tetragona					
Aerides roseum					
Dendr. moniliform.					
Brassia macul.					
Laelia anceps /					
Cattleya Skinn.					
Lycaste cruenta					
Oncid. Cencoch.					
Acineta Humb.					
Renanth. coc.					
Coelogy. cristata					
Odontog. citrosm.					

Trash

Coelogyne speciosa ✓
Cattleya crispa ✓
" Forbesii
Cypripedium venustum ✓
Dendr. pulchellum
Epidendr. ciliare
Coelia Bauerana
Cymbid. aloifol. ✓
Dendr. speciosum
Gongora pusca ✓
Trichopil tortilis
Brasavola cordata
" nodosa ✓
Max. graminea
Stanhopea oculatum
Ansellia Africa ✓
Cymbid gigantea ✓

deemed a personal
kindness by yours
Respectfully
J. S. Adam